



# **UNITED STATES AIR FORCE**

# **TRAINING EXTRACT**

**AFSC 2E1X1  
SATELLITE, WIDEBAND &  
TELEMETRY SYSTEMS  
(ANG)**

**OSSN: 2480**

**AUGUST 2002**

**OCCUPATIONAL ANALYSIS PROGRAM  
AIR FORCE OCCUPATIONAL MEASUREMENT SQUADRON  
AIR EDUCATION and TRAINING COMMAND  
1550 5th STREET EAST  
RANDOLPH AFB, TEXAS 78150-4449**

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CODAP Study Number: 2480

Study Title: Satellite, Wideband &  
Telemetry Systems

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Job Inventory Date: October 2001

OSR Date: August 2002

Training Extract Date: August 2002

## THE TRAINING EXTRACT

The enclosed Training Extract has been compiled to assist you in making training decisions. It is comprised of a series of computer printouts which show data collected from your specialty. By learning to understand this document and how it applies to training programs, you will find it to be a valuable source of information.

### READING THE TRAINING EXTRACT

TABLE OF CONTENTS: The first page of the Training Extract lists a Table of Contents. The Table of Contents reports five things:

1. Report Number - shows the number and sequence of computer products in the Training Extract.
2. Element - shows the report ID of each computer product in the Training Extract. These numbers are of use only to OMSQ personnel.
3. Program - shows the types of computer products included in the Training Extract. Usually there will be three types listed: (1) PRTMOD, (2) VARSUM, and (3) PRTFAC. Each type of printout will be discussed in more detail below.
4. Report Title - describes the general contents of each computer product included in the Training Extract.
5. Page Number - shows the page on which the respective products begin. These numbers are located at the bottom center of the page.

### TYPES OF COMPUTER PRODUCTS:

PRTMOD: This computer product can display occupational survey data in a variety of ways. Primary displays included in most Training Extracts are:

- (1) in job inventory order (by duty)
- (2) in STS order
- (3) in POI order

The first page of each PRTMOD contains information which is useful primarily to OMSQ Analysts. Of primary interest to the user is the "Description of Reported Task Factors" section at the bottom of the page. This section lists the full titles and the number of members in each data group represented across the various columns of the printout. The actual data display begins on page 2 of the individual printout. This page begins with an introductory paragraph which describes the type of data contained in the product. The actual data follows the introductory paragraph. For information on groups or task factors displayed in the column headings, refer to the listing on page 1. When a column heading describes a group of incumbents, the numbers listed below represent the percent of group members who are performing the task listed at the left-hand side of the page. Where the column heading describes a task factor such as Training Emphasis, Task Difficulty, or Automated Training Indicator (ATI), the numbers below represent the value of that task factor for the given task.

Training emphasis refers to the importance of providing training of the given task in some type of formal structured training program, such as resident technical training schools, field training, or formal OJT. It only applies to recommended training for first-enlistment personnel (those with 1-48 months TAFMS) or, in the case of lateral career ladders, first-assignment or first-job personnel (those with 1-48 months TICF). It does not apply when examining advanced courses for a career ladder. Tasks which senior career ladder personnel believe should be trained for first-enlistment personnel have high training emphasis values, while those tasks which they believe do not require formal training have low training emphasis values.



Task difficulty refers to the length of time required for the average job incumbent to learn to perform a task. Task difficulty ratings are always standardized so that tasks having average task difficulty have a mean of 5.0. Tasks with values above 5.0 are considered more difficult to learn than those with values below 5.0.

VARSUM: While the PRTMOD product provides data on the various tasks being performed, the VARSUM product presents information concerning the responses of career ladder incumbents to the various background questions in the job inventory. Page 1 of the VARSUM lists the groups which are displayed on the product, showing a group ID number, group title, and number of people in the group. These group identities define the groups which comprise the column headings on each page of the VARSUM product. Along the left-hand side of each page, you will see a series of variable numbers, followed by their respective descriptions (i.e. V0000 Equip Used - Automatic Film Processors). Each variable represents a response to a background question. For background questions which allow multiple responses, each response is given below the variable number. In most cases, only the "yes" responses will be displayed. The numbers to the right of each response represent the percentage of the given group (as identified on the first page of the product) who gave that particular response to the question.

PRTFAC: This product is very similar to the PRTMOD in that it displays percentages of people performing tasks, as well as Training Emphasis, Task Difficulty, and Automated Training Indicator (ATI) data. The PRTFAC product however, is used to display task data in descending order of some task factor, such as training emphasis. The two primary PRTFAC products included in the Training Extract display inventory tasks in descending order of Training Emphasis value, and inventory tasks in descending order of the computed Automated Training Indicator (ATI) value.

To help in interpreting Training Emphasis ratings shown on several of the data products, standardized abbreviations are used. These abbreviations are as follows:

MEAN = Average Training Emphasis Rating  
1 SD = 1 Standard Deviation above Mean Training Emphasis Rating  
2 SD = 2 Standard Deviations above Mean Training Emphasis Rating

ABOVE AVG = "ABOVE AVERAGE" in Training Emphasis; Tasks that fall between the Mean and 1 SD  
HIGH = "HIGH" in Training Emphasis; Tasks that fall between 1 SD and 2 SD  
VERY HIGH = "VERY HIGH" in Training Emphasis; Tasks that fall above 2 SD

This document has been designed and prepared as a final summary document containing data printouts which were used in analyzing the occupational survey data collected on this AFSC. We hope this brief summary assists you in utilizing the data presented in this Training Extract. If you need additional information that is not contained in this Extract, please feel free to contact one of our analysts at DSN 487-6811 for assistance.



## T A B L E   O F   C O N T E N T S

Page      1

Report	Element	Program	Title		Page
1.	RP0123	prtmod	AFSC 2E1X1 ANG Data In Inventory Order By DAFSC	PM0008	1
2.	RP0124	prtmod	CTS 2E1X1 Displayed With ANG Data By DAFSC	PM0009	24
3.	RP0125	varsum	Background info - 2E1X1 ANG Equipment Groups	VS0002	67



## Report Option Table for Modules

Option	Status
Primary Sort	Inventory Sequence
Secondary Sort	Not Used
Print Suppress	Not Used

## Report Option Table for Tasks

Option	Status
Primary Sort	Inventory Sequence
Secondary Sort	Not Used
Print Suppress	Not Used

## Description of Reported Module Factors

Col	Factor	Source vector	Title	Number Members	----- Mean	Based on All S.D.	Tasks Within Max	Range Min	----- Valid
1	TITLE		Module Statement						

## Description of Reported Task Factors

1	TITLE		Task Statement						
2	F0010	GP0010/PMP	All Air Guard Airmen with DAFSC 2E1X1	478	18.95	17.68	82.22	.21	806
3	F0011	GP0011/PMP	All Air Guard Airmen with DAFSC 2E131	3	22.13	28.90	100.00	.00	806
4	F0012	GP0012/PMP	All Air Guard Airmen with DAFSC 2E151	272	18.48	18.21	87.50	.37	806
5	F0013	GP0013/PMP	All Air Guard Airmen with DAFSC 2E171	203	19.54	18.23	74.88	.00	806

AFSC 2E1X1 tasks are presented in USAF Job Inventory order under Duty headings.

The percent of ANG DAFSC group members performing each task is presented to the right of each task.

Note that tasks are listed in alphabetical order under each Duty heading so that tasks may be easily located and cross-referenced. Differences between groups may be highlighted where there are large differences in percent members performing each task across the various groups.

D					
T Tsk		ANG	ANG	ANG	ANG
Y Nbr	Task Title	TOT	3LVL	5LVL	7LVL
-----					
A	PERFORMING GENERAL REPAIR ACTIVITIES				
A0001	Adjust cable assemblies or internal wiring	43	67	47	38
A0002	Adjust circuit card assemblies (CCAs)	53	67	56	49
A0003	Adjust cross-connections	25	33	24	26
A0004	Adjust equipment grounds	62	100	66	55
A0005	Adjust user-calibrated test equipment	32	0	36	28
A0006	Adjust equipment safety devices	32	33	36	28
A0007	Fabricate or repair equipment cables	49	67	48	51
A0008	Inspect flight hardware	2	0	3	1
A0009	Inspect flight safety wire	1	0	1	0
A0010	Inspect waveguide switching networks	23	0	26	19
A0011	Inspect waveguides	74	100	76	69
A0012	Install cable assemblies or internal wiring	50	67	50	50
A0013	Install communications equipment	72	100	74	70
A0014	Install cross-connections	27	33	25	31
A0015	Install equipment grounds	75	100	78	69
A0016	Operationally check system or test equipment	73	100	72	73
A0017	Perform corrosion control	74	100	73	75
A0018	Perform end-to-end check-outs	50	67	46	55
A0019	Perform equipment cannibalization activities	37	0	39	35
A0020	Perform software configurations on computer-based systems	22	33	22	21
A0021	Perform system diagnostics	60	67	61	60
A0022	Perform system power-downs	82	100	88	75
A0023	Perform system power-ups	82	100	87	75
A0024	Perform preventive maintenance inspections (PMIs) on CCAs	60	33	64	55
A0025	Perform PMIs on cross-connections	20	33	23	15
A0026	Perform PMIs on equipment grounds	47	67	47	47
A0027	Perform PMIs on equipment safety devices	45	67	47	43
A0028	Perform PMIs on cable assemblies or internal wiring	38	67	39	36
A0029	Reconstruct traces on circuit boards	5	0	5	5

A0030 Remove electronic communications equipment

65

67

65

66

D

T Tsk Y Nbr	Task Title	ANG TOT	ANG 3LVL	ANG 5LVL	ANG 7LVL
A0031	Remove or replace air filters	63	100	62	64
A0032	Remove or replace blower motors	43	67	38	50
A0033	Remove or replace cable assemblies or internal wiring	47	67	47	47
A0034	Remove or replace CCAs	66	67	69	61
A0035	Remove or replace circuit board soldered electronic components	25	0	22	28
A0036	Remove or replace cross-connections	22	33	20	24
A0037	Remove or replace equipment grounds	64	100	65	63
A0038	Remove or replace light bulbs	71	67	73	69
A0039	Remove or replace minor plug-in or screw-in electronic components	62	100	62	61
A0040	Remove or replace pumps	8	0	8	7
A0041	Remove or replace surface-mounted devices on circuit boards	20	0	19	22
A0042	Remove or replace equipment safety devices	34	67	33	35
A0043	Solder or desolder connectors or hardwire circuits	36	0	31	43
A0044	Troubleshoot user-calibrated test equipment	23	33	28	16
A0045	Troubleshoot or repair blower motors	27	33	26	29
A0046	Troubleshoot or repair cable assemblies or internal wiring	42	33	41	44
A0047	Troubleshoot or repair CCAs	38	33	40	35
A0048	Troubleshoot or repair cross-connections	19	33	19	18
A0049	Troubleshoot or repair equipment grounds	45	67	46	44
A0050	Troubleshoot or repair light bulbs	44	100	49	37
A0051	Troubleshoot or repair pumps	8	0	9	7
A0052	Troubleshoot or repair equipment safety devices	29	33	31	28
A0053	Visually inspect guidewires	56	67	58	52
A0054	Visually inspect safety cables	57	100	58	54

B MAINTAINING FIXED AND MOBILE ANTENNA SYSTEMS

B0055	Adjust antenna status equipment	47	67	53	39
B0056	Adjust dehydrators or pressurizers	17	33	17	16
B0057	Adjust tuneable waveguides	21	0	29	11
B0058	Assemble antenna radomes	12	33	16	7
B0059	Assemble feedhorn assemblies	60	100	63	56
B0060	Assemble or disassemble antennas	70	100	72	66
B0061	De-ice antennas	27	33	32	21
B0062	Perform waveguide insertion loss procedures	31	0	32	29
B0063	Perform PMIs on antenna status equipment	46	67	51	38
B0064	Perform PMIs on antenna systems	63	100	64	60
B0065	Perform PMIs on antennas, other than antenna systems	43	67	47	37
B0066	Remove or replace antenna controls	41	33	42	39
B0067	Remove or replace antenna coupler components	38	33	39	37
B0068	Remove or replace antenna drive equipment	39	33	38	42
B0069	Remove or replace antenna lights	24	22	27	20

B0070	Remove or replace antenna radomes	8	33	9	6
B0071	Remove or replace antenna reflector section components	39	67	35	43

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T Tsk Y Nbr	Task Title	ANG TOT	ANG 3LVL	ANG 5LVL	ANG 7LVL
B0072	Remove or replace antenna status equipment	29	33	30	27
B0073	Remove or replace antenna transmission lines or related components	40	33	40	39
B0074	Remove or replace antennas	58	33	61	53
B0075	Remove or replace cable trench sump pumps	2	0	1	3
B0076	Remove or replace de-icers or heaters	16	33	17	14
B0077	Remove or replace dehydrators or pressurizers	14	33	14	15
B0078	Remove or replace diplexers or duplexers	19	33	22	15
B0079	Remove or replace feedhorn assemblies	57	67	59	54
B0080	Remove or replace feedhorn assembly components	42	67	44	39
B0081	Remove or replace filter assemblies	44	33	42	46
B0082	Remove or replace multicouplers	15	0	14	16
B0083	Remove or replace quick reaction antenna (QRA) components	50	67	49	51
B0084	Remove or replace relays	25	33	23	28
B0085	Remove or replace splitters or combiners	24	0	24	25
B0086	Troubleshoot diplexers or duplexers	20	33	22	17
B0087	Troubleshoot splitters or combiners	22	33	22	20
B0088	Troubleshoot or repair antenna controls	43	33	46	39
B0089	Troubleshoot or repair antenna drive equipment	40	33	40	40
B0090	Troubleshoot or repair antenna positioning circuits	35	33	35	35
B0091	Troubleshoot or repair antenna radomes	8	33	9	6
B0092	Troubleshoot or repair antenna status equipment	33	67	37	28
B0093	Troubleshoot or repair antenna systems	47	33	47	47
B0094	Troubleshoot or repair antenna transmission lines or related components	38	67	39	35
B0095	Troubleshoot or repair antennas, other than antenna systems	32	33	36	28
B0096	Troubleshoot or repair cable trench sump pumps	2	0	3	1
B0097	Troubleshoot or repair de-icers or heaters	13	33	13	13
B0098	Troubleshoot or repair dehydrators or pressurizers	16	33	14	18
B0099	Troubleshoot or repair filter assemblies	25	33	24	26
B0100	Troubleshoot or repair relays	18	0	18	19
B0101	Troubleshoot or repair waveguides	45	67	46	44
B0102	Visually inspect antenna couplers	44	33	43	45
B0103	Visually inspect antenna radomes	15	33	17	11
B0104	Visually inspect antenna reflector sections	50	67	51	49
B0105	Visually inspect antennas	69	67	71	67
B0106	Visually inspect feedhorn assemblies	65	67	67	64
B0107	Visually inspect QRAs	58	67	57	59
B0108	Visually inspect waveguides	73	100	73	72

## C MAINTAINING TRACKING SYSTEMS

C0109	Adjust antenna positioning circuits	35	33	37	33
C0110	Adjust brake systems	8	22	12	5

C0111	Adjust phase shifters	9	0	13	4
C0112	Adjust software configuration systems	13	0	17	9

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T Tsk		ANG	ANG	ANG	ANG
Y Nbr	Task Title	TOT	3LVL	5LVL	7LVL
C0113	Adjust tracking servo controls	29	0	32	24
C0114	Adjust tracking systems	29	0	32	25
C0115	Operationally check tracking systems	36	67	37	34
C0116	Perform PMIs on software configuration systems	15	0	19	11
C0117	Perform PMIs on tracking systems	33	33	32	34
C0118	Remove or replace antenna tracking control drawers	30	33	29	31
C0119	Remove or replace brake systems	8	0	10	5
C0120	Remove or replace phase shifters	6	0	9	3
C0121	Remove or replace silicon control rectifier (SCR) cabinet components	6	0	7	4
C0122	Remove or replace software configuration systems	7	0	10	4
C0123	Remove or replace tracking system components	17	0	17	17
C0124	Troubleshoot phase shifters	6	0	8	2
C0125	Troubleshoot or repair brake systems	6	0	7	4
C0126	Troubleshoot or repair interrogators	4	0	4	3
C0127	Troubleshoot or repair SCR cabinets	4	0	5	3
C0128	Troubleshoot or repair software configuration systems	8	0	10	5
C0129	Troubleshoot or repair tracking demodulators	22	33	27	14
C0130	Troubleshoot or repair tracking down-converters	40	33	43	36
C0131	Troubleshoot or repair tracking receivers	33	33	37	29
C0132	Troubleshoot or repair tracking servo controls	25	33	28	21
C0133	Troubleshoot or repair tracking synchro controls	18	33	21	14
C0134	Troubleshoot or repair tracking systems	27	33	29	24
C0135	Troubleshoot or repair transponders	9	0	10	7

## D MAINTAINING RECEIVERS AND DOWNLINK SYSTEMS

D0136	Adjust amplifiers	54	33	61	44
D0137	Adjust automatic gain controls (AGCs)	49	0	56	40
D0138	Adjust down-converters	63	67	71	52
D0139	Adjust interference suppression devices	13	0	15	10
D0140	Adjust mixers	27	0	32	21
D0141	Adjust pre- or post-selectors	40	33	43	35
D0142	Adjust receiver gain monitors	34	0	40	27
D0143	Adjust receivers	54	33	58	50
D0144	Perform PMIs on amplifiers	61	33	64	56
D0145	Perform PMIs on down-converters	65	33	70	59
D0146	Perform PMIs on interference suppression devices	19	33	21	15
D0147	Perform PMIs on receivers	63	33	65	60
D0148	Remove or replace amplifiers	51	33	51	52
D0149	Remove or replace detectors or discriminators	18	0	17	19
D0150	Remove or replace down-converters	59	67	60	58
D0151	Remove or replace frame synchros	8	0	10	6
D0152	Remove or replace interference suppression devices	10	0	12	8
D0153	Remove or replace limiters	20	0	21	19
D0154	Remove or replace power divider assemblies	17	0	10	15



D0155	Remove or replace pre- or post-selectors	27	0	25	29
D0156	Remove or replace receive combiners	24	0	24	24

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T Tsk		ANG	ANG	ANG	ANG
Y Nbr	Task Title	TOT	3LVL	5LVL	7LVL
D0157	Remove or replace receivers	47	33	46	48
D0158	Remove or replace waveguide switching networks	25	0	24	26
D0159	Troubleshoot limiters	14	0	16	13
D0160	Troubleshoot power divider assemblies	15	0	18	11
D0161	Troubleshoot or repair amplifiers	40	0	40	40
D0162	Troubleshoot or repair detectors or discriminators	15	0	15	14
D0163	Troubleshoot or repair digital receivers	22	33	22	22
D0164	Troubleshoot or repair down-converters, other than tracking down-converters	44	33	47	41
D0165	Troubleshoot or repair interference suppression devices	9	0	10	8
D0166	Troubleshoot or repair pre- or post-selectors	26	0	26	26
D0167	Troubleshoot or repair receive combiners	19	0	19	20
D0168	Troubleshoot or repair receivers	45	33	45	45
D0169	Troubleshoot or repair waveguide switching networks	24	0	25	23

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E MAINTAINING TRANSMITTERS AND UPLINK SYSTEMS

E0170	Adjust automatic leveling controls (ALCs)	12	0	14	10
E0171	Adjust power monitors	26	0	30	21
E0172	Adjust transmit-gain circuits	26	0	29	23
E0173	Adjust up-converters	59	33	64	53
E0174	Adjust high-voltage power supplies	45	33	47	43
E0175	Perform PMIs on ALCs	11	0	13	8
E0176	Perform PMIs on cooling air circulation systems	16	0	18	15
E0177	Perform PMIs on high-voltage power supplies	44	33	48	39
E0178	Perform PMIs on transmitters	51	67	53	48
E0179	Perform PMIs on up-converters	60	67	64	53
E0180	Remove or replace cooling air circulation system components	20	0	19	20
E0181	Remove or replace directional couplers	27	0	26	29
E0182	Remove or replace dummy loads	55	100	58	52
E0183	Remove or replace line-voltage regulators	15	33	17	14
E0184	Remove or replace magic-T networks	4	0	5	4
E0185	Remove or replace power combiners	15	0	15	15
E0186	Remove or replace power monitors	18	0	17	19
E0187	Remove or replace transmit-gain controls	18	0	19	17
E0188	Remove or replace transmitters	37	33	34	42
E0189	Remove or replace high-voltage power supply components	37	0	34	40
E0190	Troubleshoot directional couplers	21	0	21	21
E0191	Troubleshoot dummy loads	33	33	36	29
E0192	Troubleshoot magic-T networks	4	0	4	3
E0193	Troubleshoot power combiners	14	0	17	11
E0194	Troubleshoot or repair automatic leveling systems	7	0	8	6
E0195	Troubleshoot or repair cooling air circulation systems	11	0	10	12
E0196	Troubleshoot or repair line-voltage regulators	12	0	12	12

E0197	Troubleshoot or repair power amplifier monitoring systems	17	0	17	17
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T Tsk		ANG	ANG	ANG	ANG
Y Nbr	Task Title	TOT	3LVL	5LVL	7LVL
E0198	Troubleshoot or repair power monitors	19	0	19	19
E0199	Troubleshoot or repair transmit-gain circuits	20	0	22	18
E0200	Troubleshoot or repair transmitters	41	67	39	43
E0201	Troubleshoot or repair up-converters	53	100	56	48
E0202	Troubleshoot or repair uplink waveguide switching networks	18	0	20	16
E0203	Troubleshoot or repair high-voltage power supplies	41	67	42	39

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F MAINTAINING AIR FORCE SATELLITE COMMUNICATION  
(AFSATCOM) AND MILSTAR SYSTEMS

F0204	Adjust electrostatic surge arrestors (ESAs)	5	0	5	5
F0205	Adjust time distribution subsystem pre-processors (TDSPPs)	5	0	6	4
F0206	Configure Air Force Satellite Communications (AFSATCOM) terminal equipment	36	67	39	31
F0207	Operationally check automatic send and receive (ASR) units	6	0	7	6
F0208	Operationally check command post synchronizers	3	0	4	1
F0209	Operationally check communications security (COMSEC) controls	27	67	30	23
F0210	Operationally check dual COMSEC switching units (DCSUs)	10	33	11	8
F0211	Operationally check emergency action message (EAM) equipment	6	33	7	5
F0212	Operationally check fault indicator panels (FIPs)	28	0	34	21
F0213	Operationally check force synchronizers	3	0	4	1
F0214	Operationally check line modem units (LMUs)	15	33	16	12
F0215	Operationally check magnetic tape memories (MTMs)	3	0	4	1
F0216	Operationally check message processor controls	3	33	3	2
F0217	Operationally check message processor units (MPUs)	3	33	4	1
F0218	Operationally check radio frequency (RF) controls	39	100	42	34
F0219	Operationally check receiver-transmitter (RT) controls	35	67	39	30
F0220	Operationally check remote interface units (RIUs)	14	0	17	10
F0221	Operationally check status display units (SDUs)	15	0	18	12
F0222	Operationally check supervisory status panels (SSPs)	7	0	8	6
F0223	Operationally check time standard modulators (TSMs)	6	33	7	5
F0224	Perform emergency MPU bypass procedures	2	0	3	0
F0225	Perform PMIs on ESAs	2	0	3	1
F0226	Perform PMIs on LMUs	5	0	6	3
F0227	Perform PMIs on TDSPPs	4	33	4	4
F0228	Perform PMIs on TSMs	5	33	4	4
F0229	Remove or replace ASR units	2	0	3	1
F0230	Remove or replace central processing units (CPUs)	10	0	11	9
F0231	Remove or replace command post synchronizers	1	0	3	0
F0232	Remove or replace COMSEC controls	11	33	12	8

F0233	Remove or replace DCSUs	14	0	14	14
F0234	Remove or replace digital interface units (DIUs)	5	0	7	4

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T Tsk		ANG	ANG	ANG	ANG
Y Nbr	Task Title	TOT	3LVL	5LVL	7LVL
F0235	Remove or replace ESAs	2	0	2	1
F0236	Remove or replace force synchronizers	2	0	3	0
F0237	Remove or replace LMUs	4	0	4	3
F0238	Remove or replace message processor controls	2	0	4	0
F0239	Remove or replace MTMs	2	0	3	1
F0240	Remove or replace RF controls	16	33	17	15
F0241	Remove or replace RIUs	4	0	4	3
F0242	Remove or replace RT controls	7	0	6	9
F0243	Remove or replace SDUs	2	0	3	1
F0244	Remove or replace SSPs	1	0	1	0
F0245	Remove or replace TDSPPs	4	33	4	4
F0246	Remove or replace TSMS	5	33	5	4
F0247	Schedule satellite users	3	0	4	3
F0248	Troubleshoot AFSATCOM systems to identify faulty units	24	33	28	18
F0249	Troubleshoot or repair ASR units	2	0	2	2
F0250	Troubleshoot or repair command post synchronizers	3	0	3	2
F0251	Troubleshoot or repair COMSEC controls	8	33	8	6
F0252	Troubleshoot or repair CPUs	8	0	8	7
F0253	Troubleshoot or repair DCSUs	10	0	11	9
F0254	Troubleshoot or repair DIUs	3	0	3	2
F0255	Troubleshoot or repair EAM equipment	2	33	2	1
F0256	Troubleshoot or repair ESAs	2	0	2	2
F0257	Troubleshoot or repair FIPs	3	0	3	3
F0258	Troubleshoot or repair force synchronizers	2	0	3	1
F0259	Troubleshoot or repair LMUs	4	0	4	3
F0260	Troubleshoot or repair message processor controls	2	0	3	1
F0261	Troubleshoot or repair MTMs	1	0	1	1
F0262	Troubleshoot or repair RF controls	18	0	22	14
F0263	Troubleshoot or repair RIUs	3	33	3	4
F0264	Troubleshoot or repair RT controls	6	0	6	6
F0265	Troubleshoot or repair SDUs	1	0	2	1
F0266	Troubleshoot or repair selective message routers (SMRs)	1	0	1	1
F0267	Troubleshoot or repair SSPs	2	0	2	1
F0268	Troubleshoot or repair TDSPPs	5	33	5	5
F0269	Troubleshoot or repair TSMS	4	33	3	5

G PERFORMING AIRCREW ACTIVITIES

G0270	Brief crew members or passengers on emergency procedures	14	0	15	12
G0271	Conduct aircrew mission briefings	1	0	1	0
G0272	Coordinate correction of aircraft discrepancies or malfunctions with aircraft commander or job control	1	0	1	0
G0273	Inspect life support equipment	3	0	4	0
G0274	Inspect ramp areas for foreign object damage (FOD)	2	0	4	2

matter  
G0275 Monitor radio communication transmissions

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T Tsk		ANG	ANG	ANG	ANG
Y Nbr	Task Title	TOT	3LVL	5LVL	7LVL
G0276	Perform aircrew safety observer procedures	1	0	2	0
G0277	Perform post-flight equipment checkouts	3	0	4	0
G0278	Perform pre-flight equipment checkouts	2	0	4	0
G0279	Secure equipment for takeoff or landing	4	0	6	3
G0280	Write or update flight manuals, safety and operational supplements, or flight crew checklists	2	0	3	1

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H MAINTAINING MULTIPLEXERS, MODEMS, AND ASSOCIATED  
INTERFACE EQUIPMENT

H0281	Adjust amplitude or delay equalizers	7	67	10	3
H0282	Adjust bit synchronizers	4	33	7	1
H0283	Adjust Ear-and-Mouth (E-and-M) signaling and control circuits	7	33	9	3
H0284	Adjust echo suppressors	8	33	10	3
H0285	Adjust fiber-optic receivers or transmitters	8	33	11	5
H0286	Adjust four way/four wire bridges	5	0	7	2
H0287	Adjust hubbing or multiparty equipment	3	0	4	0
H0288	Adjust in-band signaling and control circuits	6	0	6	5
H0289	Adjust level converters	15	33	17	13
H0290	Adjust level regulators	8	33	10	4
H0291	Adjust line isolation assemblies or battery isolation relay assemblies	4	33	4	2
H0292	Adjust modems	48	33	50	45
H0293	Adjust modulators or demodulators	44	67	51	33
H0294	Adjust multiplexers or demultiplexers	52	67	59	42
H0295	Adjust out-of-band signaling and control circuits	10	33	12	6
H0296	Adjust power supplies	43	67	42	43
H0297	Adjust shift keying modems	14	0	18	8
H0298	Adjust two wire/four wire conversion and termination circuits	12	0	13	9
H0299	Adjust word selectors	2	0	3	0
H0300	Configure cryptographic equipment	33	100	35	30
H0301	Configure echo suppressors	6	33	8	3
H0302	Configure encoders or decoders	9	33	13	4
H0303	Operate bit synchronizers	6	33	9	2
H0304	Operate modulators or demodulators	41	67	47	32
H0305	Operate word selectors	2	0	3	0
H0306	Operationally check cryptographic equipment	33	0	33	32
H0307	Perform modem bit error rate tests	38	100	43	30
H0308	Perform modem link characterization tests	10	67	12	6
H0309	Perform PMIs on bit synchronizers	8	33	11	5
H0310	Perform PMIs on modulators or demodulators	35	67	38	31
H0311	Perform PMIs on word selectors	3	0	4	1
H0312	Perform PMIs on encoders or decoders	10	0	11	7
H0313	Perform PMIs on four way/four wire bridges	5	0	6	2



H0314	Perform PMIs on modems	51	100	54	46
H0315	Perform PMIs on multiplexers and demultiplexers	57	100	60	51

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T Tsk Y Nbr	Task Title	ANG TOT	ANG 3LVL	ANG 5LVL	ANG 7LVL
H0316	Remove or replace amplitude or delay equalizers	7	0	9	4
H0317	Remove or replace bit synchronizers	6	33	7	4
H0318	Remove or replace computer interface equipment	9	33	8	9
H0319	Remove or replace cryptographic equipment	31	33	28	34
H0320	Remove or replace E-and-M signaling and control circuits	8	0	8	7
H0321	Remove or replace echo suppressors	6	0	8	4
H0322	Remove or replace encoders or decoders	8	0	9	8
H0323	Remove or replace fiber-optic receivers or transmitters	11	67	11	10
H0324	Remove or replace four way/four wire bridges	5	0	7	3
H0325	Remove or replace frequency generators	17	0	20	12
H0326	Remove or replace hubbing or multiparty equipment	5	0	6	4
H0327	Remove or replace in-band signaling and control circuits	6	0	8	5
H0328	Remove or replace level converters	15	33	15	13
H0329	Remove or replace level inverters	7	33	8	5
H0330	Remove or replace line or battery isolation relay assemblies	5	0	6	3
H0331	Remove or replace modems	51	100	53	49
H0332	Remove or replace modulators or demodulators	39	67	42	34
H0333	Remove or replace multiplexers or demultiplexers	47	67	50	42
H0334	Remove or replace out-of-band signaling and control circuits	7	0	9	4
H0335	Remove or replace power supplies	47	100	47	47
H0336	Remove or replace series or parallel converters	5	33	7	3
H0337	Remove or replace two wire/four wire conversion and termination circuits	8	0	10	4
H0338	Remove or replace word selectors	1	0	2	0
H0339	Troubleshoot or repair amplitude or delay equalizers	4	0	6	1
H0340	Troubleshoot or repair bit synchronizers	3	0	5	1
H0341	Troubleshoot or repair computer interface equipment	7	0	9	5
H0342	Troubleshoot or repair E-and-M signaling and control circuits	7	0	7	7
H0343	Troubleshoot or repair echo suppressors	6	0	8	2
H0344	Troubleshoot or repair encoders or decoders	7	0	7	6
H0345	Troubleshoot or repair four way/four wire bridges	5	0	6	3
H0346	Troubleshoot or repair hubbing or multiparty equipment	4	0	4	3
H0347	Troubleshoot or repair in-band signaling and control circuits	5	0	7	3
H0348	Troubleshoot or repair level converters	12	0	15	9
H0349	Troubleshoot or repair level inverters	7	0	8	5
H0350	Troubleshoot or repair line or battery isolation relay assemblies	4	0	6	2
H0351	Troubleshoot or repair modems	49	100	50	47
H0352	Troubleshoot or repair modulators or demodulators	41	100	46	34
H0353	Troubleshoot or repair multiplexers or demultiplexers	46	100	48	40

H0354	Troubleshoot or repair out-of-band signaling and control circuits	7	0	10	3
H0355	Troubleshoot or repair power supplies	43	100	43	41

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T Tsk		ANG	ANG	ANG	ANG
Y Nbr	Task Title	TOT	3LVL	5LVL	7LVL
H0356	Troubleshoot or repair series or parallel converters	5	0	6	4
H0357	Troubleshoot or repair two wire/four wire conversion and termination circuits	8	0	10	5
H0358	Troubleshoot or repair word selectors	1	0	2	1

I MAINTAINING COMMON OR MISCELLANEOUS SUBASSEMBLIES AND SYSTEMS

I0359	Adjust analog-to-digital or digital-to-analog converters	22	0	31	12
I0360	Adjust automatic frequency controls (AFCs)	16	0	16	16
I0361	Adjust battery charging systems	9	0	9	8
I0362	Adjust built-in test equipment (BITE)	32	33	38	23
I0363	Adjust carrier-level detectors	9	0	10	8
I0364	Adjust closed circuit video systems (CCVSS)	2	0	1	2
I0365	Adjust command destruct systems	1	0	1	0
I0366	Adjust countdown clocks	2	0	3	0
I0367	Adjust digital recorders or printers	4	33	3	5
I0368	Adjust diversity combiners	3	0	3	2
I0369	Adjust elapsed-time clocks	1	0	2	0
I0370	Adjust equipment alarm circuits or automatic fault sensing and switching networks	11	0	12	11
I0371	Adjust facsimile equipment	4	0	4	3
I0372	Adjust fiber-optic systems	7	0	9	5
I0373	Adjust frequency standards	13	0	15	11
I0374	Adjust hybrid bridges	2	0	3	1
I0375	Adjust infrared systems	2	0	3	0
I0376	Adjust laser systems	2	0	2	1
I0377	Adjust line conditioning equipment	5	0	5	4
I0378	Adjust magnetic data tape recorders	3	0	3	2
I0379	Adjust mission console workstations	1	0	1	0
I0380	Adjust munitions firing systems	1	0	2	0
I0381	Adjust optical disk recorders	1	0	1	0
I0382	Adjust optical systems	2	0	3	1
I0383	Adjust oscillators	22	33	25	16
I0384	Adjust oscillograph recorders	1	0	3	0
I0385	Adjust printers	6	33	6	6
I0386	Adjust private branch exchange (PBX) systems or switchboard interface equipment	2	0	1	3
I0387	Adjust signaling subsystems	4	0	4	3
I0388	Adjust synthesizers	20	33	22	17
I0389	Adjust transducers	4	0	6	2
I0390	Adjust transmit or receive path equalizers	9	0	10	8
I0391	Adjust uninterruptible power supplies (UPSs)	5	0	6	3
I0392	Adjust general purpose power supplies	13	33	12	14
I0393	Calibrate transducers	2	0	4	1

I0394	Operate computer processors	7	0	8	6
I0395	Perform PMIs on CCVSs	1	0	1	0

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T Tsk Y Nbr	Task Title	ANG TOT	ANG 3LVL	ANG 5LVL	ANG 7LVL
I0396	Perform PMIs on command destruct systems	0	0	0	0
I0397	Perform PMIs on computer processors	3	0	3	2
I0398	Perform PMIs on countdown clocks	1	0	2	0
I0399	Perform PMIs on digital recorders or printers	3	33	3	2
I0400	Perform PMIs on elapsed-time clocks	1	0	1	0
I0401	Perform PMIs on infrared systems	1	0	1	0
I0402	Perform PMIs on laser systems	1	0	2	1
I0403	Perform PMIs on magnetic data tape recorders	3	0	3	2
I0404	Perform PMIs on mission console workstations	1	0	1	0
I0405	Perform PMIs on munitions firing systems	1	0	1	0
I0406	Perform PMIs on optical disk recorder	1	0	2	0
I0407	Perform PMIs on optical systems	2	0	3	1
I0408	Perform PMIs on oscillograph recorders	1	0	3	0
I0409	Perform PMIs on analog-to-digital or digital-to-analog converters	16	0	21	9
I0410	Perform PMIs on attenuator pads	8	0	11	3
I0411	Perform PMIs on automatic or manual transfer units or switching panels	4	0	4	2
I0412	Perform PMIs on BITE	25	0	28	21
I0413	Perform PMIs on distribution frames and associated wiring	3	0	4	1
I0414	Perform PMIs on diversity combiners	3	0	4	3
I0415	Perform PMIs on equipment alarm circuits or automatic fault sensing and switching networks	10	0	10	10
I0416	Perform PMIs on fiber-optic systems	9	33	9	8
I0417	Perform PMIs on frequency standards	11	0	12	9
I0418	Perform PMIs on hybrid bridges	2	0	3	1
I0419	Perform PMIs on hybrid term units	1	0	2	0
I0420	Perform PMIs on line conditioning equipment	5	0	5	4
I0421	Perform PMIs on magnetic data tape recorders	3	0	3	4
I0422	Perform PMIs on magnetic mass storage	1	0	1	0
I0423	Perform PMIs on oscillators	14	0	17	9
I0424	Perform PMIs on patch panels	23	33	25	21
I0425	Perform PMIs on printers	6	33	5	7
I0426	Perform PMIs on RF combiners	15	0	15	16
I0427	Perform PMIs on remote control devices	9	0	8	9
I0428	Perform PMIs on station batteries	5	33	4	5
I0429	Perform PMIs on UPSs	5	0	7	4
I0430	Remove or replace AFCs	4	0	4	4
I0431	Remove or replace analog-to-digital or digital-to-analog converters	19	0	23	13
I0432	Remove or replace attenuators	24	33	25	22
I0433	Remove or replace automatic or manual transfer units or switching panels	5	0	7	3
I0434	Remove or replace battery charging systems	7	33	7	8
I0435	Remove or replace BITE	26	0	28	25
I0436	Remove or replace carrier-level detectors	6	0	6	5

I0437	Remove or replace CCVSS	3	0	3	1
I0438	Remove or replace command destruct systems	1	0	1	0
I0439	Remove or replace countdown clocks	1	0	2	0

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T Tsk		ANG	ANG	ANG	ANG
Y Nbr	Task Title	TOT	3LVL	5LVL	7LVL
I0440	Remove or replace digital recorders or printers	4	33	4	4
I0441	Remove or replace elapsed-time clocks	1	0	1	0
I0442	Remove or replace equipment alarm circuits or automatic fault sensing and switching networks	6	0	8	4
I0443	Remove or replace fiber-optic system components	10	33	11	9
I0444	Remove or replace frequency standards	12	33	11	14
I0445	Remove or replace hybrid bridges	2	0	2	1
I0446	Remove or replace infrared systems	1	0	2	0
I0447	Remove or replace laser systems	1	0	2	1
I0448	Remove or replace line conditioning equipment	5	0	6	4
I0449	Remove or replace line equalizers	3	0	4	2
I0450	Remove or replace magnetic data tape recorders	3	0	3	2
I0451	Remove or replace magnetic mass storage	2	0	3	1
I0452	Remove or replace mission console workstations	1	0	1	1
I0453	Remove or replace mixers	10	0	9	11
I0454	Remove or replace munitions firing systems	1	0	1	0
I0455	Remove or replace optical disk recorders	1	0	1	0
I0456	Remove or replace optical systems	2	0	3	1
I0457	Remove or replace oscillators	16	0	17	15
I0458	Remove or replace oscillograph recorders	1	0	2	0
I0459	Remove or replace patch panels	17	0	16	17
I0460	Remove or replace printers	9	33	7	10
I0461	Remove or replace remote control devices	7	0	7	7
I0462	Remove or replace RF combiners	18	0	18	17
I0463	Remove or replace signaling subsystem components	5	0	6	4
I0464	Remove or replace station batteries	8	33	7	10
I0465	Remove or replace synthesizers	20	0	19	22
I0466	Remove or replace test translators	10	0	11	10
I0467	Remove or replace transducers	5	0	6	3
I0468	Remove or replace UPS components	4	0	5	3
I0469	Remove or replace general purpose power supplies	16	33	14	19
I0470	Troubleshoot attenuators	16	0	19	13
I0471	Troubleshoot or repair AFCs	4	0	4	5
I0472	Troubleshoot or repair analog-to-digital or digital-to-analog converters	19	0	25	11
I0473	Troubleshoot or repair automatic or manual transfer units or switching panels	6	0	8	3
I0474	Troubleshoot or repair battery charging systems	6	33	4	8
I0475	Troubleshoot or repair BITE	24	33	26	22
I0476	Troubleshoot or repair carrier-level detectors	6	0	6	6
I0477	Troubleshoot or repair CCVSS	2	0	2	1
I0478	Troubleshoot or repair command destruct systems	1	0	3	0
I0479	Troubleshoot or repair computer processors	4	0	4	3
I0480	Troubleshoot or repair countdown clocks	1	0	1	0
I0481	Troubleshoot or repair cryptographic equipment	10	0	10	9
I0482	Troubleshoot or repair digital recorders or printers	3	0	3	2
I0483	Troubleshoot or repair distribution frames and	4	0	5	2



associated wiring  
I0484 Troubleshoot or repair elapsed-time clocks

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T Tsk Y Nbr	Task Title	ANG TOT	ANG 3LVL	ANG 5LVL	ANG 7LVL
I0485	Troubleshoot or repair equipment alarm circuits or automatic fault sensing and switching networks	7	0	8	5
I0486	Troubleshoot or repair facsimile equipment	3	0	3	3
I0487	Troubleshoot or repair fiber-optic systems	9	33	8	8
I0488	Troubleshoot or repair frequency standards	11	33	11	9
I0489	Troubleshoot or repair hybrid bridges	1	0	0	1
I0490	Troubleshoot or repair infrared systems	1	0	2	0
I0491	Troubleshoot or repair laser systems	1	0	1	1
I0492	Troubleshoot or repair line conditioning equipment components	5	0	6	4
I0493	Troubleshoot or repair line equalizers	4	0	3	4
I0494	Troubleshoot or repair magnetic data tape recorders	3	0	2	3
I0495	Troubleshoot or repair magnetic mass storage	1	0	0	1
I0496	Troubleshoot or repair mission console workstations	1	0	1	0
I0497	Troubleshoot or repair mixers	9	0	11	6
I0498	Troubleshoot or repair munitions firing systems	1	0	1	0
I0499	Troubleshoot or repair optical disk recorders	1	0	3	0
I0500	Troubleshoot or repair optical systems	3	0	3	1
I0501	Troubleshoot or repair oscillators	13	33	13	13
I0502	Troubleshoot or repair oscillograph recorders	1	0	3	0
I0503	Troubleshoot or repair patch panels	24	67	24	23
I0504	Troubleshoot or repair power distribution panels	17	33	17	18
I0505	Troubleshoot or repair printers	7	33	6	7
I0506	Troubleshoot or repair remote control devices	6	0	6	6
I0507	Troubleshoot or repair RF combiners	17	33	16	17
I0508	Troubleshoot or repair signaling subsystems	6	0	7	4
I0509	Troubleshoot or repair synthesizers	20	67	19	20
I0510	Troubleshoot or repair test translators	9	33	8	10
I0511	Troubleshoot or repair transducers	4	0	5	1
I0512	Troubleshoot or repair UPSs	6	0	6	6
I0513	Troubleshoot or repair general purpose power supplies	21	33	19	22

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J PERFORMING EQUIPMENT OPERATIONS ACTIVITIES

J0514	Annotate master station or project logs	39	33	34	46
J0515	Compose and transmit messages using teletype equipment	4	0	3	6
J0516	Configure antenna tracking systems	32	100	39	23
J0517	Configure automatic or manual transfer units or switching panels	5	0	8	2
J0518	Configure computer based data processing equipment	6	0	7	6
J0519	Configure down-converters or up-converters	53	67	60	44
J0520	Configure equipment for network operations	23	33	26	19
J0521	Configure global positioning satellite (GPS) receivers	20	67	21	17
J0522	Configure modems	59	67	62	55
J0523	Configure multiplexers or demultiplexers	63	67	68	56
J0524	Configure patch panels	64	100	67	50

J0525	Configure recording equipment	5	33	6	4
J0526	Configure timing equipment	38	67	40	34

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T Tsk		ANG	ANG	ANG	ANG
Y Nbr	Task Title	TOT	3LVL	5LVL	7LVL
J0527	Coordinate operational schedule changes with area controlling agencies	11	33	11	10
J0528	Establish communications links	58	100	62	51
J0529	Establish orderwire contacts	58	100	63	50
J0530	Initiate satellite equipment reports (SERs)	23	33	27	18
J0531	Monitor frequencies, such as to determine interference or equipment operation	28	33	32	22
J0532	Perform post-pass procedures	9	0	11	6
J0533	Perform pre-pass procedures	9	0	11	6
J0534	Perform amplitude linearity tests	5	0	8	1
J0535	Perform audio frequency tests	13	67	15	9
J0536	Perform baseband loading procedures	11	0	13	8
J0537	Perform baseband sweep procedures	13	33	16	8
J0538	Perform bit error rate tests	52	67	58	44
J0539	Perform carrier-to-receiver noise density (C/kT) checks	14	0	17	10
J0540	Perform changeovers between commercial power and back up generators	26	67	25	26
J0541	Perform communications circuit fault isolation procedures	35	67	35	34
J0542	Perform frequency response tests	14	67	15	13
J0543	Perform harmonic distortion tests	10	0	14	5
J0544	Perform idle channel noise tests	18	33	19	17
J0545	Perform loop-back or end-to-end tests	58	100	61	53
J0546	Perform noise figure tests	38	33	44	31
J0547	Perform noise-to-power ratio (NPR) tests	11	0	13	8
J0548	Perform orderwire noise level tests	14	33	15	12
J0549	Perform patch or test facilities alternate circuit routing procedures	16	0	17	14
J0550	Perform receive link gain checks	17	0	19	13
J0551	Perform receive signal level (RSL) checks	54	100	56	50
J0552	Perform RF level checks	47	100	49	43
J0553	Perform satellite acquisition procedures	49	100	50	47
J0554	Perform satellite network operations procedures	29	100	28	30
J0555	Perform satellite tracking procedures	46	100	50	41
J0556	Perform software loading procedures	16	33	16	17
J0557	Perform switchovers of equipment subassemblies to redundant equipment	26	33	26	27
J0558	Perform terminal impedance tests	9	0	11	5
J0559	Perform test tone level tests	21	0	19	23
J0560	Perform transmission line loss measurements	14	33	13	15
J0561	Perform voltage standing wave ratio (VSWR) measurements	23	0	22	25
J0562	Report satellite status to appropriate agencies	37	33	34	40
J0563	Submit after-action reports	30	0	25	37
J0564	Submit gateway access requests	9	0	10	8
J0565	Submit satellite access requests	22	22	20	25

J0566	Update ephemeris sets	7	33	7	5
J0567	Verify operational readiness with ground network or distant terminals	21	33	18	26

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T Tsk		ANG	ANG	ANG	ANG
Y Nbr	Task Title	TOT	3LVL	5LVL	7LVL
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K	PERFORMING EQUIPMENT INSTALLATION AND MISSION SUPPORT ACTIVITIES				
K0568	Adjust kineto tracking mount (KTM) systems	1	0	2	0
K0569	Analyze test requirements to determine support such as equipment, facilities, or personnel	9	0	7	12
K0570	Assemble and install cable troughs	13	0	13	12
K0571	Assemble and install interconnects	15	33	15	15
K0572	Coordinate instrumentation checkouts with other test teams	7	0	6	9
K0573	Coordinate project support agreements (PSAs) with appropriate agencies	4	0	3	5
K0574	Coordinate test directives with appropriate agencies	5	0	6	4
K0575	Coordinate test item or equipment preparation with technical data agencies or engineers	7	0	7	7
K0576	Coordinate test parameters with test directors	4	0	4	4
K0577	Coordinate test support with base or range agencies	4	0	3	5
K0578	Design or construct electronic circuits	3	0	4	3
K0579	Design or construct mounting devices	4	0	6	3
K0580	Determine power source requirements for equipment operation	9	0	7	12
K0581	Draft blueprints, cabling, circuit or wiring schematic diagrams	5	0	6	4
K0582	Draft facility layouts	5	0	3	7
K0583	Draft systems diagrams	6	0	6	6
K0584	Evaluate condition and quality of instrumentation recordings	3	0	4	2
K0585	Evaluate test locations	4	0	5	3
K0586	Evaluate test safety requirements	6	0	6	6
K0587	Fabricate or repair cable connectors	33	33	30	38
K0588	Form and fan equipment cables	9	0	10	8
K0589	Install or remove antenna systems	53	67	53	53
K0590	Install or remove cable ladders	15	33	17	12
K0591	Install or remove cabling between van sites	40	67	40	38
K0592	Install or remove distribution frames and associated wiring	10	0	10	10
K0593	Install or remove electrical conduits	13	33	14	12
K0594	Install or remove fixed communications equipment	17	33	19	12
K0595	Install or remove line conditioning equipment	9	33	8	11
K0596	Install or remove master station grounds	23	33	21	25
K0597	Install or remove power distribution systems	17	33	16	17
K0598	Install or remove power generating equipment	22	0	21	23
K0599	Interpret blueprints, cabling, circuit or wiring schematic diagrams	30	33	28	33
K0600	Interpret logic diagrams	10	33	10	33

K0601	Operate KTM systems	1	0	2	0
K0602	Operate range radars	1	0	2	1

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T Tsk		ANG	ANG	ANG	ANG
Y Nbr	Task Title	TOT	3LVL	5LVL	7LVL
K0603	Operationally check safe and arm devices	3	0	4	1
K0604	Perform information system (IS) relocation project or scheme procedures	3	0	3	3
K0605	Perform IS removal project or scheme procedures	4	0	3	5
K0606	Perform post-installation operational tests	16	0	13	21
K0607	Perform pre-implementation surveys	9	0	7	13
K0608	Perform project or scheme reviews	6	0	5	8
K0609	Perform site survey procedures	34	33	28	42
K0610	Perform static firing of munitions or ordinance devices	3	0	4	2
K0611	Prepare job completion documentation	23	0	19	28
K0612	Prepare post-installation documentation	15	0	11	22
K0613	Prepare pre-implementation documentation	12	0	10	15
K0614	Prepare project or scheme review documentation	7	0	6	9
K0615	Prepare site for equipment installation	30	0	26	36
K0616	Prepare work phase documentation	10	0	8	13
K0617	Set up antenna systems	56	67	59	52
K0618	Set up or tear down KTM systems	1	0	1	0
K0619	Set up or tear down range radars	2	0	3	1
K0620	Site antenna systems	33	0	32	35
K0621	Site KTM systems	1	0	2	0
-----					
L	PERFORMING MAINTENANCE MANAGEMENT ACTIVITIES				
L0622	Adjust daily maintenance plans to meet operational commitments	22	33	13	34
L0623	Analyze core automated maintenance system (CAMS), Reliability and Maintainability Information System (REMIS), Improved Maintenance Management Program (IMMP), or G081 data	16	33	15	17
L0624	Clear Red-X or hazardous conditions	6	0	6	6
L0625	Develop equipment inventory listings (EILs) and master PMI listings	12	33	7	17
L0626	Evaluate new, modified, or prototype equipment	9	0	8	11
L0627	Identify problem areas using deficiency, service, or status reports, such as reports of deficiency (RODs) or product quality deficiency reports (PQDRs), other than equipment or supply	14	33	10	20
L0628	Initiate or annotate aircraft flight or maintenance records, such as AFTO Forms 781 (Aircrew/Mission Flight Data Document) or 349 (Maintenance Data Collection Record)-series	5	0	5	6
L0629	Initiate or coordinate deficiency, service, or status reports, such as RODs or PQDRs	11	33	7	15
L0630	Maintain due-in-from-maintenance (DIFM) transaction reports	13	33	8	19



L0631	Perform time compliance technical order (TCTO)	36	33	28	46
	inspections				

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T Tsk		ANG	ANG	ANG	ANG
Y Nbr	Task Title	TOT	3LVL	5LVL	7LVL
L0632	Report equipment status to appropriate agencies	33	0	28	41
L0633	Retrieve CAMS, REMIS, IMMP, or GO81 listings or reports	29	33	25	34
L0634	Review aircraft flight or maintenance records, such as AFTO Forms 781 or 349-series	7	0	7	7
L0635	Review preventive maintenance schedules	41	67	33	51
L0636	Update EIL and master PMI listings	14	33	11	19
L0637	Update manual documents, such as AFTO Form 349 (Maintenance Data Collection Record)	31	33	24	40
L0638	Update historical reports in CAMS, REMIS, IMMP, or GO81	28	33	21	36
L0639	Update maintenance data collection (MDC) data in CAMS, REMIS, IMMP, or GO81	28	33	18	42
L0640	Update personnel data files in CAMS, REMIS, IMMP, or GO81	22	33	16	31
L0641	Update workcenter training reports in CAMS, REMIS, IMMP, or GO81	22	33	17	29
L0642	Verify accuracy of CAMS, REMIS, IMMP, or GO81 daily inputs	18	33	14	23
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M	PERFORMING GENERAL ADMINISTRATIVE AND TECHNICAL ORDER (TO) SYSTEM ACTIVITIES				
M0643	Compile data for records, reports, logs, or trend analyses	20	0	15	27
M0644	Complete accident or incident reports	24	33	17	33
M0645	Destroy classified materials or documents	37	33	30	47
M0646	Establish or maintain automated technical order management system (ATOMS) accounts	14	33	8	23
M0647	Establish or maintain accountability records for classified materials or documents	19	33	14	27
M0648	Identify and report suspected security compromises	31	67	26	36
M0649	Initiate classified reports, messages, or documents	9	0	7	13
M0650	Initiate technical order (TO) improvement reports, such as AFTO Forms 22 (Technical Order Improvement Report and Reply)	26	67	19	35
M0651	Initiate or maintain standby rosters or workcenter pyramid recall rosters	19	33	10	31
M0652	Initiate requests for temporary duty (TDY) orders	18	33	11	27
M0653	Inventory classified materials or documents	28	67	23	34
M0654	Maintain administrative files	23	33	13	38
M0655	Maintain publications libraries, other than TO libraries	18	33	10	29
M0656	Maintain time compliance technical orders (TCTOs)	26	33	18	37
M0657	Maintain TO libraries	35	33	26	46
M0658	Maintain or update status indicators, such as boards	22	33	15	22

graphs, or charts  
M0659 Participate in TCTO meetings

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D T Tsk Y Nbr	Task Title	ANG	ANG	ANG	ANG
		TOT	3LVL	5LVL	7LVL
M0660	Prepare administrative or classified materials or documents for mailing, transporting, or issue	8	0	6	11
M0661	Review TO changes	35	33	30	42
M0662	Review TO improvement reports, such as AFTO Forms 22	21	33	16	27
M0663	Write minutes of briefings, conferences, or meetings	14	33	8	22
-----					
N	PERFORMING GENERAL SUPPLY AND EQUIPMENT ACTIVITIES				
N0664	Coordinate maintenance of equipment with appropriate agencies	24	33	14	38
N0665	Develop equipment checklists	29	33	22	39
N0666	Establish requirements for equipment, tools, parts or supplies	23	0	18	29
N0667	Evaluate serviceability of equipment, tools, parts, or supplies	36	67	29	45
N0668	Identify and report equipment or supply problems	42	67	39	47
N0669	Initiate requisitions for equipment, tools, parts, or supplies	34	100	23	47
N0670	Inventory equipment, tools, parts, or supplies	56	100	51	63
N0671	Issue or log turn-ins of equipment, tools, parts, or supplies	29	100	21	39
N0672	Maintain documentation on items requiring periodic inspections or calibrations	30	67	24	37
N0673	Maintain organizational equipment or supply records	20	67	14	27
N0674	Pick up, deliver, or store equipment, tools, parts, or supplies	37	67	33	40
-----					
O	PERFORMING MOBILITY AND CONTINGENCY ACTIVITIES				
O0675	Assign personnel to mobility or contingency positions	11	0	4	19
O0676	Brief deploying personnel	15	0	6	27
O0677	Compile or prepare status of resources training systems (SORTSs)	8	0	6	10
O0678	Complete operations plan (OPLAN) sourcing requirements	5	0	3	6
O0679	Compute OPLAN requirements status listings	4	0	3	4
O0680	Conduct contingency operation or mobility planning and execution system (COMPES) programs	4	0	3	5
O0681	Conduct mobility or deployment site surveys	25	33	17	37
O0682	Configure mobile vans	40	67	39	40
O0683	Coordinate area port joint inspections with area port squadrons	3	0	3	2
O0684	Coordinate deployment of personnel with other MAJCOMs or joint service commands	5	0	3	7
O0685	Coordinate exercise sourcing requirements with functional managers	3	0	4	2



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Y Nbr	Task Title		TOT	3LVL	5LVL
				7LVL	
00686	Coordinate limited technical inspection (LTI) vehicle inspections with vehicle maintenance		5	0	4
00687	Coordinate mobility or contingency requirements with appropriate agencies		6	0	4
00688	Coordinate specific source of personnel requirements with appropriate agencies		5	33	4
00689	Determine cost factors for support agreements		3	0	3
00690	Determine specific source of personnel requirements for deployment manning documents		4	0	3
00691	Develop contingency exercise mobility (CEM) orders		2	0	3
00692	Develop cut sheets		30	0	23
00693	Develop maintenance plans		17	0	9
00694	Develop mobility inspection checklists		17	33	9
00695	Dig trenches, such as around tents and shelters		29	33	26
00696	Don or doff chemical warfare personal protective clothing		56	33	48
00697	Draft mobility or deployment after-action reports		21	0	11
00698	Initiate or process acquisition documents, such as requests for proposals (RFPs)		3	0	2
00699	Initiate or process modification management documents (MMDs)		3	0	2
00700	Inspect cut sheets		41	33	36
00701	Inspect launch support systems		2	0	2
00702	Inspect mobility bags or kits		37	33	35
00703	Inspect packed or palletized mobility or contingency equipment prior to transport		30	33	24
00704	Install ground systems at deployed locations		38	67	32
00705	Load plan aircraft for deployments		7	0	5
00706	Maintain disaster preparedness checklists		12	33	9
00707	Maintain accountability of personnel selected to fill OPLAN requirements		7	0	5
00708	Maintain base OPLAN files		3	0	3
00709	Pack or palletize mobility or contingency equipment for shipment or movement such as, airlift, road, or sealift		42	33	39
00710	Perform camouflage procedures		54	33	51
00711	Perform camp security		46	67	43
00712	Perform chemical warfare agent decontamination procedures		40	33	37
00713	Perform disease or pestilence countermeasures		11	0	9
00714	Perform explosive ordnance reconnaissance		25	0	22
00715	Perform pallet buildup activities		50	0	47
00716	Perform path profile procedures		14	0	8
00717	Perform plans file and mobility file matches		4	0	3
00718	Perform predeployment reconnaissance surveys		10	33	6
00719	Perform site surveys for ground systems		26	0	19
00720	Perform source selection evaluation team (SSET)		2	0	2

	activities				
00721	Perform cover and concealment techniques for work	15	33	13	18
	party security				

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00722	Perform or set up site security	32	67	31	34
00723	Submit or process award fees	2	0	3	2
00724	Submit or process requirement documents	6	0	6	6
00725	Prepare equipment for deployments	45	67	39	52
00726	Submit or process incentive fees	2	0	2	1
00727	Prepare sites at deployed locations, such as cutting grass or removing snow	24	33	20	29
00728	Process classified materials or documents at deployed locations	16	0	11	24
00729	Provide OPLAN requirements status listings to unit commanders	4	0	3	6
00730	Request or distribute mobility requirements documents	6	0	3	9
00731	Review contract action requests (CARs)	1	0	2	1
00732	Review engineer change proposals (ECPs)	4	0	3	5
00733	Review requirement documents	8	0	5	12
00734	Set up or tear down shelters	57	67	57	58
00735	Set up or tear down tents	63	33	61	65
00736	Tear down, inspect, clean, and reassemble weapons	49	67	44	56
00737	Test ground systems at deployed locations	34	67	28	42
00738	Update SORTS reports	8	0	4	14
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P	PERFORMING TRAINING ACTIVITIES				
P0739	Administer or score tests	14	0	8	23
P0740	Brief personnel concerning training programs or matters	28	33	13	47
P0741	Complete student entry or withdrawal forms	8	0	6	11
P0742	Conduct formal course classroom training	12	0	8	18
P0743	Conduct on-the-job training (OJT)	53	67	36	74
P0744	Counsel trainees on training progress	36	33	16	64
P0745	Determine training requirements	30	0	14	52
P0746	Develop formal course curricula, plans of instruction (POIs), or specialty training standards (STSs)	8	0	5	13
P0747	Develop training programs, plans, or procedures	25	0	9	46
P0748	Develop written tests	10	0	5	17
P0749	Develop or procure training materials or aids	21	0	12	33
P0750	Establish or maintain study reference files	15	0	8	24
P0751	Evaluate training methods or techniques of instructors	15	0	10	21
P0752	Evaluate effectiveness of training programs, plans, or procedures	18	0	10	30
P0753	Evaluate progress of trainees	33	33	14	58
P0754	Inspect training materials or aids for operation or suitability	18	0	11	29
P0755	Maintain training records or files	42	33	29	60
P0756	Personalize lesson plans	18	0	9	30
P0757	Prepare job qualification standards (JOSS)	17	33	0	20





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## Q PERFORMING MANAGEMENT AND SUPERVISORY ACTIVITIES

Q0759	Annotate time and attendance sheets for civilian employees	6	0	4	8
Q0760	Assign personnel to work areas or duty positions	21	0	8	39
Q0761	Assign sponsors for newly assigned personnel	13	33	4	24
Q0762	Conduct general meetings, such as staff meetings, briefings, conferences, or workshops	15	0	7	26
Q0763	Conduct self-inspections or self-assessments	24	0	15	35
Q0764	Conduct staff assistance visits, inspections, or audits	5	0	2	9
Q0765	Conduct supervisory performance feedback sessions	13	0	5	24
Q0766	Conduct safety inspections of equipment or facilities	25	0	16	38
Q0767	Conduct supervisory orientations for newly assigned personnel	21	33	8	37
Q0768	Counsel subordinates concerning personal matters	25	33	10	45
Q0769	Determine or establish logistics requirements, such as personnel, equipment, tools, parts, supplies, or workspace	15	33	6	28
Q0770	Determine or establish work assignments or priorities	26	33	7	51
Q0771	Develop organizational or functional charts	12	0	4	21
Q0772	Develop resource protection programs	7	0	4	10
Q0773	Develop self-inspection or self-assessment program checklists	12	33	5	21
Q0774	Develop inputs to mobility, contingency, disaster preparedness, or unit emergency or alert plans	10	0	6	15
Q0775	Develop or establish work methods or procedures	18	0	8	31
Q0776	Develop or establish work schedules	25	33	8	46
Q0777	Draft budget requirements	3	0	2	4
Q0778	Draft host-tenant or interservice agreements	2	0	3	0
Q0779	Draft supplements or changes to directives, such as policy directives, instructions, or manuals	4	0	4	5
Q0780	Establish organizational policies, such as operating instructions (OIs) or standard operating procedures (SOPs)	6	0	3	10
Q0781	Establish performance standards for subordinates	14	33	6	25
Q0782	Establish procedures for accountability of equipment, tools, parts, or supplies	15	33	8	24
Q0783	Evaluate inspection report findings or inspection procedures	11	0	6	19
Q0784	Evaluate job hazards or compliance with Air Force Occupational Safety and Health (AFOSH) Program	22	0	15	32
Q0785	Evaluate personnel for compliance with performance standards	26	33	11	46
Q0786	Evaluate personnel for promotion, demotion	22	33	7	44

reclassification, or special awards

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T Tsk Y Nbr	Task Title	ANG TOT	ANG 3LVL	ANG 5LVL	ANG 7LVL
Q0787	Evaluate maintenance or utilization of equipment, tools, parts, supplies, or workspace	20	33	9	34
Q0788	Implement safety or security programs	24	0	15	35
Q0789	Initiate personnel action requests	12	0	6	21
Q0790	Initiate actions required due to substandard performance of personnel	16	33	6	30
Q0791	Inspect personnel for compliance with military standards	32	33	16	54
Q0792	Interpret policies, directives, or procedures for subordinates	24	33	11	41
Q0793	Investigate accidents or incidents	11	33	5	19
Q0794	Plan layouts of facilities	10	0	5	18
Q0795	Review budget requirements	4	0	3	5
Q0796	Review host-tenant or interservice agreements	3	0	3	3
Q0797	Review mobility, contingency, disaster preparedness, or unit emergency or alert plans	12	33	7	17
Q0798	Review drafts of supplements or changes to directives, such as policy directives, instructions, or manuals	9	33	4	15
Q0799	Schedule personnel for TDY assignments, leaves, or passes	10	33	3	20
Q0800	Write inspection reports	10	0	5	18
Q0801	Write job or position descriptions	10	0	6	16
Q0802	Write staff studies, surveys, or routine reports, other than training or inspection reports	5	0	4	7
Q0803	Write or indorse civilian performance appraisals	3	0	2	4
Q0804	Write or indorse military performance reports	7	0	4	11
Q0805	Write recommendations for awards or decorations	19	33	7	36
Q0806	Write replies to inspection reports	12	0	4	24



## Report Option Table for Modules

Option	Status
Primary Sort	Inventory Sequence
Secondary Sort	Not Used
Print Suppress	Not Used

## Report Option Table for Tasks

Option	Status
Primary Sort	Inventory Sequence
Secondary Sort	Not Used
Print Suppress	Not Used

## Description of Reported Module Factors

Col	Factor	Source vector	Title	Number Members	----- Based on All Tasks Within Range Mean	S.D.	Max	Min	Valid
1	TITLE		Module Statement						

## Description of Reported Task Factors

1	TITLE		Task Statement						
2	F0010	GP0010/PMP	All Air Guard Airmen with DAFSC 2E1X1	478	18.95	17.68	82.22	.21	806
3	F0011	GP0011/PMP	All Air Guard Airmen with DAFSC 2E131	3	22.13	28.90	100.00	.00	806
4	F0012	GP0012/PMP	All Air Guard Airmen with DAFSC 2E151	272	18.48	18.21	87.50	.37	806
5	F0013	GP0013/PMP	All Air Guard Airmen with DAFSC 2E171	203	19.54	18.23	74.88	.00	806

CTS 2E1X1, Satellite, Wideband & Telemetry Systems dated April 2000, is presented below with matched job inventory tasks and occupational survey data.

CTS items are listed below the dotted line, followed by a listing of matched tasks. Pertinent survey data are printed to the right of each task. These data can be used to validate CTS content and code levels. In addition, tasks which were not matched with CTS items are listed in a "Tasks Not Referenced" section. These unreferenced tasks should be carefully reviewed to identify new areas which may warrant inclusion in future CTSS. For assistance in interpretation of this printout, contact USAFOMS/OMYO, at DSN 487-6811, ext (3006).

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0001	CFTEP 2E1X1, SATELLITE, WIDEBAND AND TELEMETRY SYSTEMS, DATED 30 APRIL 2002				
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0002	1. GENERAL PRINCIPLES				
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0003	1.1. Standard Maintenance Practices				
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0004	1.1.1. Describe basic troubleshooting procedures				
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0005	1.1.2. State facts relating to the theory and operation of local and remote loopbacks				
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0006	1.1.3. Locate information about AF maintenance practices (AFI 21-116)				
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0007 1.1.4. Describe how to locate system components using  
alphanumeric designator

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0008 1.1.5. Demonstrate use of technical publications

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M0650 Initiate technical order (TO) improvement reports, 26 67 19 35  
such as AFTO Forms 22 (Technical Order Improvement  
Report and Reply)M0657 Maintain TO libraries 35 33 26 46

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0009 1.2. Documentation

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0010 1.2.1. State facts about the purpose and use of the  
Maintenance Data Collection Systems

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L0639 Update maintenance data collection (MDC) data in CAMS, 28 33 18 42  
REMIS, IMMP, or GO81

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0011 1.2.2. Input maintenance data collection information into  
automated system

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L0639 Update maintenance data collection (MDC) data in CAMS, 28 33 18 42  
REMIS, IMMP, or GO81

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0012 1.2.3. State facts about the purpose and use of the  
material deficiency reporting system

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N0668 Identify and report equipment or supply problems 42 67 39 47



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0013 1.2.4. State facts about the purpose and use of preventive  
maintenance inspection and equipment status reporting

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0014 1.2.5. Identify the procedures used to process and control  
material

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0015 1.2.6. Research parts information using applicable manuals

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0016 1.3. Perform power measurement calculations

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0017 1.4. Identify basic facts of the 2E1X1 career field

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0018 1.5. Identify security concerns of the 2E1X1 career field

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0019 1.6. Operational Risk Management (ORM)

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0020 1.6.1. State hazards associated with the AFSC

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0021 1.6.2. State basic facts and terms about AFOSH standards  
for the AFSC

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0022 1.6.3. Practice safety precautions during maintenance actions

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0023 1.7. Agile logistics (supply, inventory management)

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0024 1.7.1. State facts about agile logistics

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0025 1.7.2. Describe the flow of parts (depot/commercial vendor)

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0026 1.7.3. Describe the technician's role in agile logistics

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0027 1.8. Identify the purposes of equipment associated with the 2E1X1 career field

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0028 1.9. Test Range Mission - In this subject area, the student shall:

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0029 1.9.1. Identify purposes and principles of the test range mission

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0030 1.9.1.1. Research and development

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0031 1.9.1.2. Operational test and evaluation

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0032 1.9.2. Identify purposes and principles of instrumentation  
and telemetry systems

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0033 1.9.2.1. Instrumentation System

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0034 1.9.2.2. Telemetry System

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0035 1.9.3. Identify purposes and principles of the test range

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0036 1.9.3.1. Range Commander's Council

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0037 1.9.3.2. Applicable Range Standards

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0038 1.9.3.3. Test Range Functions

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0039 1.10. Space Systems and Equipment

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0040 1.10.1. Identify principles pertaining to the Satellite  
Ground Station (SGS)

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0041 1.10.2. Identify principles pertaining to the Satellite  
Readout Station Upgrade (SRCU)

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0042 1.10.3. Identify principles pertaining to the Data  
Reduction Center

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0043 1.10.4. Identify principles pertaining to the Satellite  
Operations Center

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0044 1.10.5. Identify principles pertaining to the AN/MSQ-118  
System

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0045 1.10.6. Identify principles pertaining to the Simplified  
Processing Station Replacement (SRS/U)

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0046 1.10.7. Identify principles pertaining to the MARK IVB  
Meteorological Data Station (MDS)

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0047	1.10.8. Identify principles pertaining to the Global Positioning System (GPS)				
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0048	2. TEST EQUIPMENT				
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0049	2.1. Know the purpose of selected types of equipment used in the 2E1X1 career field				
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0050	2.2. Know the principles, capabilities, and limitations of the test equipment listed in Note 2				
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0051	2.3. Operate the test equipment listed in Note 2				
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0052	3. DIGITAL MULTIPLEXER EQUIPMENT				
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0053	3.1. Identify principles, capabilities, and limitations of time division multiplexing equipment				
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0054	3.2. Perform an operational check of a time division multiplexer				
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H0315	Perform PMIs on multiplexers and demultiplexers	57	100	60	51
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0055	3.3. Configure a time division multiplexer for operation				
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J0523	Configure multiplexers or demultiplexers	63	67	68	56
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0056	3.4. Troubleshoot and repair a time division multiplexer				
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H0353	Troubleshoot or repair multiplexers or demultiplexers	46	100	49	40
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0057	4. MODULATION EQUIPMENT				
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0058	4.1. Identify principles, capabilities, and limitations of modulation				
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0059	4.1.1. Spread Spectrum Multiple Access (SSMA) digital modem				
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0060	4.1.2. Time Division Multiple Access (TDMA) digital modem				
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0061	4.1.3. Demand Access Multiple Assigned (DAMA) digital modem				
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0062	4.2. Perform an operational check on a Digital MODEM				
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H0314	Perform PMIs on modems	51	100	54	46
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0063 4.3. Troubleshoot and repair a digital MODEM

H0351	Troubleshoot or repair modems	49	100	50	47
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0064 5. FREQUENCY GENERATION AND CONVERSION EQUIPMENT

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0065 5.1. Identify principles, capabilities, and limitations of  
frequency conversion and generation equipment

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0066 5.2. Perform an operational check of a SHF tactical  
satellite equipment frequency standard

I0417	Perform PMIs on frequency standards	11	0	12	9
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0067 5.3. Perform an operational check on an upconverter

E0179	Perform PMIs on up-converters	60	67	64	53
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0068 5.4. Configure an upconverter

J0519	Configure down-converters or up-converters	53	67	60	44
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0069 5.5. Troubleshoot and repair an upconverter

E0201	Troubleshoot or repair up-converters	53	100	56	48
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0070 5.6. Perform operational checks on a downconverter

D0145	Perform PMIs on down-converters	65	33	70	59
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0071	5.7. Configure a downconverter				
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J0519	Configure down-converters or up-converters	53	67	60	44
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0072	5.8. Troubleshoot and repair a downconverter				
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D0164	Troubleshoot or repair down-converters, other than tracking down-converters	44	33	47	41
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0073	5.9. Identify principles, capabilities, and limitations of a low noise amplifier (LNA)				
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0074	5.10. Perform an operational check on an LNA				
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D0144	Perform PMIs on amplifiers	61	33	64	56
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0075	5.11. Troubleshoot and repair an LNA				
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D0161	Troubleshoot or repair amplifiers	40	0	40	40
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0076	6. Identify principles, capabilities, and limitations of satellite tracking systems				
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0077	7. TIMING AND SYNCHRONIZATION				
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0078	7.1. Identify principles, capabilities, and limitations of timing and synchronization				
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0079 7.2. Troubleshoot and repair timing synchronization equipment

I0488	Troubleshoot or repair frequency standards	11	33	11	9
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0080 8. LINE-OF-SIGHT (LOS) SYSTEMS

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0081 8.1. Identify principles, capabilities, and limitations of LOS systems

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0082 8.2. Perform operational checks on a digital line of sight (LOS) radio

D0161	Troubleshoot or repair amplifiers	40	0	40	40
D0164	Troubleshoot or repair down-converters, other than tracking down-converters	44	33	47	41
D0168	Troubleshoot or repair receivers	45	33	45	45
E0178	Perform PMIs on transmitters	51	67	53	48
E0200	Troubleshoot or repair transmitters	41	67	39	43
E0201	Troubleshoot or repair up-converters	53	100	56	48

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0083 8.3. Troubleshoot and repair a digital LOS radio

D0161	Troubleshoot or repair amplifiers	40	0	40	40
D0162	Troubleshoot or repair detectors or discriminators	15	0	15	14
D0163	Troubleshoot or repair digital receivers	22	33	22	22
D0164	Troubleshoot or repair down-converters, other than tracking down-converters	44	33	47	41
D0168	Troubleshoot or repair receivers	45	33	45	45
E0197	Troubleshoot or repair power amplifier monitoring systems	17	0	17	17
E0198	Troubleshoot or repair power monitors	19	0	19	19
E0199	Troubleshoot or repair transmit-gain circuits	20	0	22	18
E0200	Troubleshoot or repair transmitters	41	67	39	43
E0201	Troubleshoot or repair up-converters	53	100	56	48

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0084 9. DEPLOYABLE TROPOSPHERIC SCATTER SYSTEMS

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0085 9.1. Identify principles, capabilities, and limitations of  
a TRC-170 Tropospheric Scatter radio system

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0086 9.2. Perform an operational check of AN/TRC-170  
Tropospheric Scatter digital multiplexer equipment

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H0315 Perform PMIs on multiplexers and demultiplexers 57 100 60 51

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0087 9.3. Configure an AN/TRC-170 Tropospheric Scatter digital  
multiplexer

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J0523 Configure multiplexers or demultiplexers 63 67 68 56

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0088 9.4. Perform an operational check of a AN/TRC-170  
Tropospheric Scatter equipment modem

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H0314 Perform PMIs on modems 51 100 54 46

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0089 9.5. Configure an AN/TRC-170 Tropospheric Scatter equipment  
modem

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J0522 Configure modems 59 67 62 55

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0090 9.6. Perform an operational check of a TRX-170 Tropospheric  
equipment radio subsystem

D0161 Troubleshoot or repair amplifiers 40 0 40 40

D0164 Troubleshoot or repair down-converters, other than  
tracking down-converters 44 33 47 41

D0168 Troubleshoot or repair receivers 45 33 45 45

E0178 Perform PMIs on transmitters 51 67 53 48

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T Tsk Y Nbr	Task Title	ANG TOT	ANG 3LVL	ANG 5LVL	ANG 7LVL
E0200	Troubleshoot or repair transmitters	41	67	39	43
E0201	Troubleshoot or repair up-converters	53	100	56	48
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0091	9.7. Configure an AN/TRC-170 Tropospheric Scatter equipment radio subsystem				
J0519	Configure down-converters or up-converters	53	67	60	44
-----					
0092	9.8. Identify principles and capabilities of control orderwires				
J0529	Establish orderwire contacts	58	100	63	50
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0093	9.9. Configure the AN/TRC-170 patch panels for operation				
J0524	Configure patch panels	64	100	67	59
-----					
0094	9.10. Identify principles and capabilities of power distribution				
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0095	9.11. Identify principles and capabilities of system monitoring				
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0096	9.12. Perform system testing of AN/TRC-170 Tropospheric Scatter equipment				
J0538	Perform bit error rate tests	52	67	58	44
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0097	9.13. Troubleshoot the AN/TRC-170 Tropospheric Scatter radio set				
D0161	Troubleshoot or repair amplifiers	40	0	40	40
D0162	Troubleshoot or repair detectors or discriminators	15	0	15	14
D0163	Troubleshoot or repair digital receivers	22	33	22	22

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T Tsk Y Nbr	Task Title	ANG TOT	ANG 3LVL	ANG 5LVL	ANG 7LVL
D0164	Troubleshoot or repair down-converters, other than tracking down-converters	44	33	47	41
D0168	Troubleshoot or repair receivers	45	33	45	45
E0197	Troubleshoot or repair power amplifier monitoring systems	17	0	17	17
E0198	Troubleshoot or repair power monitors	19	0	19	19
E0199	Troubleshoot or repair transmit-gain circuits	20	0	22	18
E0200	Troubleshoot or repair transmitters	41	67	39	43
E0201	Troubleshoot or repair up-converters	53	100	56	48

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0098 9.14. Monitor circuit link quality on the AN/TRC-170 Tropospheric Scatter radio equipment

J0538	Perform bit error rate tests	52	67	58	44
J0546	Perform noise figure tests	38	33	44	31
J0547	Perform noise-to-power ratio (NPR) tests	11	0	13	8
J0551	Perform receive signal level (RSL) checks	54	100	56	50
J0552	Perform RF level checks	47	100	49	43

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0099 9.15. Perform an operational check of the TRC-170 Tropospheric Scatter equipment communications link

J0567	Verify operational readiness with ground network or distant terminals	21	33	18	26
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0100 9.16. Configure an AN/TRC-170 Tropospheric Scatter equipment system to establish a communications link

J0528	Establish communications links	58	100	62	51
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0101 10. DEPLOYABLE SHF SATELLITE SYSTEMS

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0102 10.1. Identify principles of operations of SHF satellite systems

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0103	10.2. Perform an operational check of SHF tactical satellite equipment digital multiplexer				
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H0315	Perform PMIs on multiplexers and demultiplexers	57	100	60	51
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0104	10.3. Configure a SHF tactical satellite equipment digital multiplexer				
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J0523	Configure multiplexers or demultiplexers	63	67	68	56
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0105	10.4. Perform an operational check of a SHF tactical satellite equipment modem				
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H0314	Perform PMIs on modems	51	100	54	46
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0106	10.5. Configure a SHF tactical satellite equipment modem				
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J0522	Configure modems	59	67	62	55
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0107	10.6. Perform an operational check of a SHF tactical satellite equipment radio subsystem				
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D0161	Troubleshoot or repair amplifiers	40	0	40	40
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D0164	Troubleshoot or repair down-converters, other than tracking down-converters	44	33	47	41
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D0168	Troubleshoot or repair receivers	45	33	45	45
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E0178	Perform PMIs on transmitters	51	67	53	48
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E0200	Troubleshoot or repair transmitters	41	67	39	43
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E0201	Troubleshoot or repair up-converters	53	100	56	48
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0108	10.7. Configure a SHF tactical satellite equipment radio subsystem				
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J0519	Configure down-converters or up-converters	53	67	60	44
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0109	10.8. Perform an operational check of SHF tactical satellite antenna control equipment				
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B0064	Perform PMIs on antenna systems	63	100	64	60
C0115	Operationally check tracking systems	36	67	37	34

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0110	10.9. Troubleshoot and repair SHF tactical satellite antenna control equipment				
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B0088	Troubleshoot or repair antenna controls	43	33	46	39
C0134	Troubleshoot or repair tracking systems	27	33	29	24

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0111	10.10. Identify principles and capabilities of control orderwires				
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J0529	Establish orderwire contacts	58	100	63	50
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0112	10.11. Identify principles and capabilities of power distribution				
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0113	10.12. Identify principles and capabilities of system monitoring				
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0114	10.13. Perform system testing of SHF tactical satellite equipment				
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J0528	Establish communications links	58	100	62	51
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0115	10.14. Troubleshoot and repair a SHF tactical satellite equipment system				
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D0161	Troubleshoot or repair amplifiers	40	0	40	40
D0162	Troubleshoot or repair detectors or discriminators	15	0	15	14

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D0163	Troubleshoot or repair digital receivers	22	33	22	22
D0164	Troubleshoot or repair down-converters, other than tracking down-converters	44	33	47	41
D0168	Troubleshoot or repair receivers	45	33	45	45
E0197	Troubleshoot or repair power amplifier monitoring systems	17	0	17	17
E0198	Troubleshoot or repair power monitors	19	0	19	19
E0199	Troubleshoot or repair transmit-gain circuits	20	0	22	18
E0200	Troubleshoot or repair transmitters	41	67	39	43
E0201	Troubleshoot or repair up-converters	53	100	56	48
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0116	10.15. Monitor circuit link quality on SHF tactical satellite equipment				
J0538	Perform bit error rate tests	52	67	58	44
J0546	Perform noise figure tests	38	33	44	31
J0547	Perform noise-to-power ratio (NPR) tests	11	0	13	8
J0551	Perform receive signal level (RSL) checks	54	100	56	50
J0552	Perform RF level checks	47	100	49	43
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0117	10.16. Acquire and track a satellite using SHF tactical satellite equipment				
J0516	Configure antenna tracking systems	32	100	39	23
-----					
0118	10.17. Perform an operational check of a SHF tactical satellite equipment communications link				
J0567	Verify operational readiness with ground network or distant terminals	21	33	18	26
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0119	10.18. Configure a SHF tactical satellite equipment system to establish a communications link				
J0528	Establish communications links	58	100	62	51
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0120	11. ANCILLARY EQUIPMENT				

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0121	11.1. Perform an operational check on cryptographic equipment				
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H0306	Operationally check cryptographic equipment	33	0	33	32
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0122	11.2. Configure a TROPO Satellite Support Radio (TSSO) to establish a communications link				
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J0528	Establish communications links	58	100	62	51
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0123	11.3. Configure a TD-1234 Remote Multiplexer Combiner (RMC)				
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J0523	Configure multiplexers or demultiplexers	63	67	68	56
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0124	12. DEPLOYABLE MULTIBAND SYSTEMS				
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0125	12.1. Identify principles, capabilities, and limitations of operations of multi-band systems				
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0126	12.2. Perform an operational check of digital multiplexer equipment				
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H0315	Perform PMIs on multiplexers and demultiplexers	57	100	60	51
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0127	12.3. Configure a digital multiplexer				
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J0523	Configure multiplexers or demultiplexers	63	67	68	56
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0128	12.4. Perform an operational check of an equipment modem				
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J0538	Perform bit error rate tests	52	67	58	44
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0129	12.5. Configure an equipment modem				
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J0522	Configure modems	59	67	62	55
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0130	12.6. Perform an operational check of an equipment radio subsystem				
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D0161	Troubleshoot or repair amplifiers	40	0	40	40
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D0164	Troubleshoot or repair down-converters, other than tracking down-converters	44	33	47	41
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D0168	Troubleshoot or repair receivers	45	33	45	45
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E0178	Perform PMIs on transmitters	51	67	53	48
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E0200	Troubleshoot or repair transmitters	41	67	39	43
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E0201	Troubleshoot or repair up-converters	53	100	56	48
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0131	12.7. Configure the equipment radio sub-system				
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J0519	Configure down-converters or up-converters	53	67	60	44
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0132	12.8. Identify principles and capabilities of control orderwires				
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J0529	Establish orderwire contacts	58	100	63	50
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0133	12.9. Configure the patch panels for operation				
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J0524	Configure patch panels	64	100	67	59
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0134	12.10. Identify principles and capabilities of power distribution				
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0135	12.11. Identify principles and capabilities of system monitoring				
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0136	12.12. Identify principles and capabilities of antenna control system				
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J0516	Configure antenna tracking systems	32	100	39	23
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0137	13. NETWORK BANDWIDTH MANAGEMENT EQUIPMENT				
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0138	13.1. Identify principles, capabilities, and limitations of Integrated Digital Network Exchange (IDNX) equipment				
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0139	13.2. Perform operational check and configuration IDNX equipment				
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H0287	Adjust hubbing or multiparty equipment	3	0	4	0
H0315	Perform PMIs on multiplexers and demultiplexers	57	100	60	51

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0140	14. NETWORK TRANSPORT INFRASTRUCTURE				
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0141 14.1. Identify principles, capabilities, and limitations of  
the following network configurations

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0142 14.1.1. Network topologies (Star, Ring, Bus, etc.)

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0143 14.1.2. Network types (LAN, WAN, VPN)

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0144 14.2. Identify principles, capabilities, and limitations of  
the following information transport devices:

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0145 14.2.1. Routers

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0146 14.2.2. Hubs (Concentrators)

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0147 14.2.3. Bridges

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0148 14.2.4. Gateways

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0149 14.2.5. Switches:

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0150	14.2.5.1. Circuit switching				
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0151	14.2.5.2. Message switching				
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0152	14.2.5.3. Packet switching				
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0153	14.2.5.4. Asynchronous transfer mode (ATM)				
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0154	15. STANDARD INSTALLATION PRACTICES				
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0155	15.1. State facts related to standard installation practices				
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0156	15.2. Describe the importance of cable labeling and installation documentation				
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0157	15.3. Describe wire color coding standards				
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0158	15.4. Describe fiber optics installation concepts				
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0159 15.5. Describe the concepts of:

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0160 15.5.1. Grounding

A0015 Install equipment grounds

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0161 15.5.2. Bonding

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0162 15.5.3. Shielding

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0163 15.6. Identify procedures to construct and terminate cables  
with the following connectors:

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0164 15.6.1. Multi-pin

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0165 15.6.2. Modular

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0166 15.6.3. Coaxial

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0167 16. TRANSMISSION MEASUREMENT

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0168 16.1. Perform cable transmission line measurements

J0560	Perform transmission line loss measurements	14	33	13	15
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0169 17. Identify general principles of Satellite Access  
Request (SAR) procedures and processes

J0565	Submit satellite access requests	22	33	20	25
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0170 Tasks not referenced

A0001	Adjust cable assemblies or internal wiring	43	67	47	38
A0002	Adjust circuit card assemblies (CCAs)	53	67	56	49
A0003	Adjust cross-connections	25	33	24	26
A0004	Adjust equipment grounds	62	100	66	55
A0005	Adjust user-calibrated test equipment	32	0	36	28
A0006	Adjust equipment safety devices	32	33	36	28
A0007	Fabricate or repair equipment cables	49	67	48	51
A0008	Inspect flight hardware	2	0	3	1
A0009	Inspect flight safety wire	1	0	1	0
A0010	Inspect waveguide switching networks	23	0	26	19
A0011	Inspect waveguides	74	100	76	69
A0012	Install cable assemblies or internal wiring	50	67	50	50
A0013	Install communications equipment	72	100	74	70
A0014	Install cross-connections	27	33	25	31
A0016	Operationally check system or test equipment	73	100	72	73
A0017	Perform corrosion control	74	100	73	75
A0018	Perform end-to-end check-outs	50	67	46	55
A0019	Perform equipment cannibalization activities	37	0	39	35
A0020	Perform software configurations on computer-based systems	22	33	22	21
A0021	Perform system diagnostics	60	67	61	60
A0022	Perform system power-downs	82	100	88	75
A0023	Perform system power-ups	82	100	87	75
A0024	Perform preventive maintenance inspections (PMIs) on CCAs	60	33	64	55
A0025	Perform PMIs on cross-connections	20	33	23	15
A0026	Perform PMIs on equipment grounds	47	67	47	47
A0027	Perform PMIs on equipment safety devices	45	67	47	43
A0028	Perform PMIs on cable assemblies or internal wiring	38	67	39	36
A0029	Reconstruct traces on circuit boards	5	0	5	5
A0030	Remove electronic communications equipment	65	67	65	66
A0031	Remove or replace air filters	62	100	62	64



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A0032	Remove or replace blower motors	43	67	38	50
A0033	Remove or replace cable assemblies or internal wiring	47	67	47	47
A0034	Remove or replace CCAs	66	67	69	61
A0035	Remove or replace circuit board soldered electronic components	25	0	22	28
A0036	Remove or replace cross-connections	22	33	20	24
A0037	Remove or replace equipment grounds	64	100	65	63
A0038	Remove or replace light bulbs	71	67	73	69
A0039	Remove or replace minor plug-in or screw-in electronic components	62	100	62	61
A0040	Remove or replace pumps	8	0	8	7
A0041	Remove or replace surface-mounted devices on circuit boards	20	0	19	22
A0042	Remove or replace equipment safety devices	34	67	33	35
A0043	Solder or desolder connectors or hardwire circuits	36	0	31	43
A0044	Troubleshoot user-calibrated test equipment	23	33	28	16
A0045	Troubleshoot or repair blower motors	27	33	26	29
A0046	Troubleshoot or repair cable assemblies or internal wiring	42	33	41	44
A0047	Troubleshoot or repair CCAs	38	33	40	35
A0048	Troubleshoot or repair cross-connections	19	33	19	18
A0049	Troubleshoot or repair equipment grounds	45	67	46	44
A0050	Troubleshoot or repair light bulbs	44	100	49	37
A0051	Troubleshoot or repair pumps	8	0	9	7
A0052	Troubleshoot or repair equipment safety devices	29	33	31	28
A0053	Visually inspect guidewires	56	67	58	52
A0054	Visually inspect safety cables	57	100	58	54
B0055	Adjust antenna status equipment	47	67	53	39
B0056	Adjust dehydrators or pressurizers	17	33	17	16
B0057	Adjust tuneable waveguides	21	0	29	11
B0058	Assemble antenna radomes	12	33	16	7
B0059	Assemble feedhorn assemblies	60	100	63	56
B0060	Assemble or disassemble antennas	70	100	72	66
B0061	De-ice antennas	27	33	32	21
B0062	Perform waveguide insertion loss procedures	31	0	32	29
B0063	Perform PMIs on antenna status equipment	46	67	51	38
B0065	Perform PMIs on antennas, other than antenna systems	43	67	47	37
B0066	Remove or replace antenna controls	41	33	42	39
B0067	Remove or replace antenna coupler components	38	33	39	37
B0068	Remove or replace antenna drive equipment	39	33	38	42
B0069	Remove or replace antenna lights	34	33	37	30
B0070	Remove or replace antenna radomes	8	33	9	6
B0071	Remove or replace antenna reflector section components	39	67	35	43
B0072	Remove or replace antenna status equipment	29	33	30	27
B0073	Remove or replace antenna transmission lines or related components	40	33	40	39
B0074	Remove or replace antennas	58	33	61	52



B0075	Remove or replace cable trench sump pumps	2	0	1	3
B0076	Remove or replace de-icers or heaters	16	33	17	14
B0077	Remove or replace dehydrators or pressurizers	14	33	14	15

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T Tsk Y Nbr	Task Title	ANG TOT	ANG 3LVL	ANG 5LVL	ANG 7LVL
B0078	Remove or replace diplexers or duplexers	19	33	22	15
B0079	Remove or replace feedhorn assemblies	57	67	59	54
B0080	Remove or replace feedhorn assembly components	42	67	44	39
B0081	Remove or replace filter assemblies	44	33	42	46
B0082	Remove or replace multicouplers	15	0	14	16
B0083	Remove or replace quick reaction antenna (QRA) components	50	67	49	51
B0084	Remove or replace relays	25	33	23	28
B0085	Remove or replace splitters or combiners	24	0	24	25
B0086	Troubleshoot diplexers or duplexers	20	33	22	17
B0087	Troubleshoot splitters or combiners	22	33	22	20
B0089	Troubleshoot or repair antenna drive equipment	40	33	40	40
B0090	Troubleshoot or repair antenna positioning circuits	35	33	35	35
B0091	Troubleshoot or repair antenna radomes	8	33	9	6
B0092	Troubleshoot or repair antenna status equipment	33	67	37	28
B0093	Troubleshoot or repair antenna systems	47	33	47	47
B0094	Troubleshoot or repair antenna transmission lines or related components	38	67	39	35
B0095	Troubleshoot or repair antennas, other than antenna systems	32	33	36	28
B0096	Troubleshoot or repair cable trench sump pumps	2	0	3	1
B0097	Troubleshoot or repair de-icers or heaters	13	33	13	13
B0098	Troubleshoot or repair dehydrators or pressurizers	16	33	14	18
B0099	Troubleshoot or repair filter assemblies	25	33	24	26
B0100	Troubleshoot or repair relays	18	0	18	19
B0101	Troubleshoot or repair waveguides	45	67	46	44
B0102	Visually inspect antenna couplers	44	33	43	45
B0103	Visually inspect antenna radomes	15	33	17	11
B0104	Visually inspect antenna reflector sections	50	67	51	49
B0105	Visually inspect antennas	69	67	71	67
B0106	Visually inspect feedhorn assemblies	65	67	67	64
B0107	Visually inspect QRAs	58	67	57	59
B0108	Visually inspect waveguides	73	100	73	72
C0109	Adjust antenna positioning circuits	35	33	37	33
C0110	Adjust brake systems	9	33	12	5
C0111	Adjust phase shifters	9	0	13	4
C0112	Adjust software configuration systems	13	0	17	9
C0113	Adjust tracking servo controls	29	0	32	24
C0114	Adjust tracking systems	29	0	32	25
C0116	Perform PMIs on software configuration systems	15	0	19	11
C0117	Perform PMIs on tracking systems	33	33	32	34
C0118	Remove or replace antenna tracking control drawers	30	33	29	31
C0119	Remove or replace brake systems	8	0	10	5
C0120	Remove or replace phase shifters	6	0	9	3
C0121	Remove or replace silicon control rectifier (SCR) cabinet components	6	0	7	4
C0122	Remove or replace software configuration systems	7	0	10	4

C0123	Remove or replace tracking system components	17	0	17	17
C0124	Troubleshoot phase shifters	6	0	8	2
C0125	Troubleshoot or repair brake systems	6	0	7	4

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T Tsk		ANG	ANG	ANG	ANG
Y Nbr	Task Title	TOT	3LVL	5LVL	7LVL
C0126	Troubleshoot or repair interrogators	4	0	4	3
C0127	Troubleshoot or repair SCR cabinets	4	0	5	3
C0128	Troubleshoot or repair software configuration systems	8	0	10	5
C0129	Troubleshoot or repair tracking demodulators	22	33	27	14
C0130	Troubleshoot or repair tracking down-converters	40	33	43	36
C0131	Troubleshoot or repair tracking receivers	33	33	37	29
C0132	Troubleshoot or repair tracking servo controls	25	33	28	21
C0133	Troubleshoot or repair tracking synchro controls	18	33	21	14
C0135	Troubleshoot or repair transponders	9	0	10	7
D0136	Adjust amplifiers	54	33	61	44
D0137	Adjust automatic gain controls (AGCs)	49	0	56	40
D0138	Adjust down-converters	63	67	71	52
D0139	Adjust interference suppression devices	13	0	15	10
D0140	Adjust mixers	27	0	32	21
D0141	Adjust pre- or post-selectors	40	33	43	35
D0142	Adjust receiver gain monitors	34	0	40	27
D0143	Adjust receivers	54	33	58	50
D0146	Perform PMIs on interference suppression devices	19	33	21	15
D0147	Perform PMIs on receivers	63	33	65	60
D0148	Remove or replace amplifiers	51	33	51	52
D0149	Remove or replace detectors or discriminators	18	0	17	19
D0150	Remove or replace down-converters	59	67	60	58
D0151	Remove or replace frame sychros	8	0	10	6
D0152	Remove or replace interference suppression devices	10	0	12	8
D0153	Remove or replace limiters	20	0	21	19
D0154	Remove or replace power divider assemblies	17	0	19	15
D0155	Remove or replace pre- or post-selectors	27	0	25	29
D0156	Remove or replace receive combiners	24	0	24	24
D0157	Remove or replace receivers	47	33	46	48
D0158	Remove or replace waveguide switching networks	25	0	24	26
D0159	Troubleshoot limiters	14	0	16	13
D0160	Troubleshoot power divider assemblies	15	0	18	11
D0165	Troubleshoot or repair interference suppression devices	9	0	10	8
D0166	Troubleshoot or repair pre- or post-selectors	26	0	26	26
D0167	Troubleshoot or repair receive combiners	19	0	19	20
D0169	Troubleshoot or repair waveguide switching networks	24	0	25	23
E0170	Adjust automatic leveling controls (ALCs)	12	0	14	10
E0171	Adjust power monitors	26	0	30	21
E0172	Adjust transmit-gain circuits	26	0	29	23
E0173	Adjust up-converters	59	33	64	53
E0174	Adjust high-voltage power supplies	45	33	47	43
E0175	Perform PMIs on ALCs	11	0	13	8
E0176	Perform PMIs on cooling air circulation systems	16	0	18	15
E0177	Perform PMIs on high-voltage power supplies	44	33	48	39
E0180	Remove or replace cooling air circulation system components	20	0	19	20

E0181	Remove or replace directional couplers	27	0	26	29
E0182	Remove or replace dummy loads	55	100	58	52
E0183	Remove or replace line-voltage regulators	15	33	17	14

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T Tsk Y Nbr	Task Title	ANG TOT	ANG 3LVL	ANG 5LVL	ANG 7LVL
E0184	Remove or replace magic-T networks	4	0	5	4
E0185	Remove or replace power combiners	15	0	15	15
E0186	Remove or replace power monitors	18	0	17	19
E0187	Remove or replace transmit-gain controls	18	0	19	17
E0188	Remove or replace transmitters	37	33	34	42
E0189	Remove or replace high-voltage power supply components	37	0	34	40
E0190	Troubleshoot directional couplers	21	0	21	21
E0191	Troubleshoot dummy loads	33	33	36	29
E0192	Troubleshoot magic-T networks	4	0	4	3
E0193	Troubleshoot power combiners	14	0	17	11
E0194	Troubleshoot or repair automatic leveling systems	7	0	8	6
E0195	Troubleshoot or repair cooling air circulation systems	11	0	10	12
E0196	Troubleshoot or repair line-voltage regulators	12	0	12	12
E0202	Troubleshoot or repair uplink waveguide switching networks	18	0	20	16
E0203	Troubleshoot or repair high-voltage power supplies	41	67	42	39
F0204	Adjust electrostatic surge arrestors (ESAs)	5	0	5	5
F0205	Adjust time distribution subsystem pre-processors (TDSPPs)	5	0	6	4
F0206	Configure Air Force Satellite Communications (AFSATCOM) terminal equipment	36	67	39	31
F0207	Operationally check automatic send and receive (ASR) units	6	0	7	6
F0208	Operationally check command post synchronizers	3	0	4	1
F0209	Operationally check communications security (COMSEC) controls	27	67	30	23
F0210	Operationally check dual COMSEC switching units (DCSUs)	10	33	11	8
F0211	Operationally check emergency action message (EAM) equipment	6	33	7	5
F0212	Operationally check fault indicator panels (FIPs)	28	0	34	21
F0213	Operationally check force synchronizers	3	0	4	1
F0214	Operationally check line modem units (LMUs)	15	33	16	12
F0215	Operationally check magnetic tape memories (MTMs)	3	0	4	1
F0216	Operationally check message processor controls	3	33	3	2
F0217	Operationally check message processor units (MPUs)	3	33	4	1
F0218	Operationally check radio frequency (RF) controls	39	100	42	34
F0219	Operationally check receiver-transmitter (RT) controls	35	67	39	30
F0220	Operationally check remote interface units (RIUs)	14	0	17	10
F0221	Operationally check status display units (SDUs)	15	0	18	12
F0222	Operationally check supervisory status panels (SSPs)	7	0	8	6
F0223	Operationally check time standard modulators (TSMs)	6	33	7	5
F0224	Perform emergency MPU bypass procedures	2	0	3	0
F0225	Perform PMIs on ESAs	2	0	3	1
F0226	Perform PMIs on LMUs	5	0	6	3
F0227	Perform PMIs on TDSPPs	4	33	4	4
F0228	Perform PMIs on TSMs	5	33	4	4

F0229	Remove or replace ASR units	2	0	3	1
F0230	Remove or replace central processing units (CPUs)	10	0	11	9
F0231	Remove or replace command post synchronizers	1	0	3	0

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T Tsk		ANG	ANG	ANG	ANG
Y Nbr	Task Title	TOT	3LVL	5LVL	7LVL
F0232	Remove or replace COMSEC controls	11	33	13	8
F0233	Remove or replace DCSUs	14	0	14	14
F0234	Remove or replace digital interface units (DIUs)	5	0	7	4
F0235	Remove or replace ESAs	2	0	2	1
F0236	Remove or replace force synchronizers	2	0	3	0
F0237	Remove or replace LMUs	4	0	4	3
F0238	Remove or replace message processor controls	2	0	4	0
F0239	Remove or replace MTMs	2	0	3	1
F0240	Remove or replace RF controls	16	33	17	15
F0241	Remove or replace RIUs	4	0	4	3
F0242	Remove or replace RT controls	7	0	6	9
F0243	Remove or replace SDUs	2	0	3	1
F0244	Remove or replace SSPs	1	0	1	0
F0245	Remove or replace TDSPPs	4	33	4	4
F0246	Remove or replace TSMs	5	33	5	4
F0247	Schedule satellite users	3	0	4	3
F0248	Troubleshoot AFSATCOM systems to identify faulty units	24	33	28	18
F0249	Troubleshoot or repair ASR units	2	0	2	2
F0250	Troubleshoot or repair command post synchronizers	3	0	3	2
F0251	Troubleshoot or repair COMSEC controls	8	33	8	6
F0252	Troubleshoot or repair CPUs	8	0	8	7
F0253	Troubleshoot or repair DCSUs	10	0	11	9
F0254	Troubleshoot or repair DIUs	3	0	3	2
F0255	Troubleshoot or repair EAM equipment	2	33	2	1
F0256	Troubleshoot or repair ESAs	2	0	2	2
F0257	Troubleshoot or repair FIPs	3	0	3	3
F0258	Troubleshoot or repair force synchronizers	2	0	3	1
F0259	Troubleshoot or repair LMUs	4	0	4	3
F0260	Troubleshoot or repair message processor controls	2	0	3	1
F0261	Troubleshoot or repair MTMs	1	0	1	1
F0262	Troubleshoot or repair RF controls	18	0	22	14
F0263	Troubleshoot or repair RIUs	3	33	3	4
F0264	Troubleshoot or repair RT controls	6	0	6	6
F0265	Troubleshoot or repair SDUs	1	0	2	1
F0266	Troubleshoot or repair selective message routers (SMRs)	1	0	1	1
F0267	Troubleshoot or repair SSPs	2	0	2	1
F0268	Troubleshoot or repair TDSPPs	5	33	5	5
F0269	Troubleshoot or repair TSMs	4	33	3	5
G0270	Brief crew members or passengers on emergency procedures	14	0	15	12
G0271	Conduct aircrew mission briefings	1	0	1	0
G0272	Coordinate correction of aircraft discrepancies or malfunctions with aircraft commander or job control	1	0	1	0
G0273	Inspect life support equipment	3	0	4	0
G0274	Inspect ramp areas for foreign object damage (FOD)	3	0	4	3



G0275	Monitor radio communication transmissions	17	0	18	15
G0276	Perform aircrew safety observer procedures	1	0	2	0
G0277	Perform post-flight equipment checkouts	3	0	4	0

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T Tsk Y Nbr	Task Title	ANG TOT	ANG 3LVL	ANG 5LVL	ANG 7LVL
G0278	Perform pre-flight equipment checkouts	2	0	4	0
G0279	Secure equipment for takeoff or landing	4	0	6	3
G0280	Write or update flight manuals, safety and operational supplements, or flight crew checklists	2	0	3	1
H0281	Adjust amplitude or delay equalizers	7	67	10	3
H0282	Adjust bit synchronizers	4	33	7	1
H0283	Adjust Ear-and-Mouth (E-and-M) signaling and control circuits	7	33	9	3
H0284	Adjust echo suppressors	8	33	10	3
H0285	Adjust fiber-optic receivers or transmitters	8	33	11	5
H0286	Adjust four way/four wire bridges	5	0	7	2
H0288	Adjust in-band signaling and control circuits	6	0	6	5
H0289	Adjust level converters	15	33	17	13
H0290	Adjust level regulators	8	33	10	4
H0291	Adjust line isolation assemblies or battery isolation relay assemblies	4	33	4	2
H0292	Adjust modems	48	33	50	45
H0293	Adjust modulators or demodulators	44	67	51	33
H0294	Adjust multiplexers or demultiplexers	52	67	59	42
H0295	Adjust out-of-band signaling and control circuits	10	33	12	6
H0296	Adjust power supplies	43	67	42	43
H0297	Adjust shift keying modems	14	0	18	8
H0298	Adjust two wire/four wire conversion and termination circuits	12	0	13	9
H0299	Adjust word selectors	2	0	3	0
H0300	Configure cryptographic equipment	33	100	35	30
H0301	Configure echo suppressors	6	33	8	3
H0302	Configure encoders or decoders	9	33	13	4
H0303	Operate bit synchronizers	6	33	9	2
H0304	Operate modulators or demodulators	41	67	47	32
H0305	Operate word selectors	2	0	3	0
H0307	Perform modem bit error rate tests	38	100	43	30
H0308	Perform modem link characterization tests	10	67	12	6
H0309	Perform PMIs on bit synchronizers	8	33	11	5
H0310	Perform PMIs on modulators or demodulators	35	67	38	31
H0311	Perform PMIs on word selectors	3	0	4	1
H0312	Perform PMIs on encoders or decoders	10	0	11	7
H0313	Perform PMIs on four way/four wire bridges	5	0	6	3
H0316	Remove or replace amplitude or delay equalizers	7	0	9	4
H0317	Remove or replace bit synchronizers	6	33	7	4
H0318	Remove or replace computer interface equipment	9	33	8	9
H0319	Remove or replace cryptographic equipment	31	33	28	34
H0320	Remove or replace E-and-M signaling and control circuits	8	0	8	7
H0321	Remove or replace echo suppressors	6	0	8	4
H0322	Remove or replace encoders or decoders	8	0	9	8
H0323	Remove or replace fiber-optic receivers or	11	67	11	10

transmitters

H0324	Remove or replace four way/four wire bridges	5	0	7	3
H0325	Remove or replace frequency generators	17	0	20	12

- 54 -

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T Tsk Y Nbr	Task Title	ANG TOT	ANG 3LVL	ANG 5LVL	ANG 7LVL
H0326	Remove or replace hubbing or multiparty equipment	5	0	6	4
H0327	Remove or replace in-band signaling and control circuits	6	0	8	5
H0328	Remove or replace level converters	15	33	15	13
H0329	Remove or replace level inverters	7	33	8	5
H0330	Remove or replace line or battery isolation relay assemblies	5	0	6	3
H0331	Remove or replace modems	51	100	53	49
H0332	Remove or replace modulators or demodulators	39	67	42	34
H0333	Remove or replace multiplexers or demultiplexers	47	67	50	42
H0334	Remove or replace out-of-band signaling and control circuits	7	0	9	4
H0335	Remove or replace power supplies	47	100	47	47
H0336	Remove or replace series or parallel converters	5	33	7	3
H0337	Remove or replace two wire/four wire conversion and termination circuits	8	0	10	4
H0338	Remove or replace word selectors	1	0	2	0
H0339	Troubleshoot or repair amplitude or delay equalizers	4	0	6	1
H0340	Troubleshoot or repair bit synchronizers	3	0	5	1
H0341	Troubleshoot or repair computer interface equipment	7	0	9	5
H0342	Troubleshoot or repair E-and-M signaling and control circuits	7	0	7	7
H0343	Troubleshoot or repair echo suppressors	6	0	8	2
H0344	Troubleshoot or repair encoders or decoders	7	0	7	6
H0345	Troubleshoot or repair four way/four wire bridges	5	0	6	3
H0346	Troubleshoot or repair hubbing or multiparty equipment	4	0	4	3
H0347	Troubleshoot or repair in-band signaling and control circuits	5	0	7	3
H0348	Troubleshoot or repair level converters	12	0	15	9
H0349	Troubleshoot or repair level inverters	7	0	8	5
H0350	Troubleshoot or repair line or battery isolation relay assemblies	4	0	6	2
H0352	Troubleshoot or repair modulators or demodulators	41	100	46	34
H0354	Troubleshoot or repair out-of-band signaling and control circuits	7	0	10	3
H0355	Troubleshoot or repair power supplies	43	100	43	41
H0356	Troubleshoot or repair series or parallel converters	5	0	6	4
H0357	Troubleshoot or repair two wire/four wire conversion and termination circuits	8	0	10	5
H0358	Troubleshoot or repair word selectors	1	0	2	1
I0359	Adjust analog-to-digital or digital-to-analog converters	22	0	31	12
I0360	Adjust automatic frequency controls (AFCs)	16	0	16	16
I0361	Adjust battery charging systems	9	0	9	8
I0362	Adjust built-in test equipment (BITE)	32	33	38	23
I0363	Adjust carrier-level detectors	9	0	10	8
I0364	Adjust closed circuit video systems (CCVSs)	2	0	1	2

I0365	Adjust command destruct systems	1	0	1	0
I0366	Adjust countdown clocks	2	0	3	0
I0367	Adjust digital recorders or printers	4	33	3	5

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T Tsk		ANG	ANG	ANG	ANG
Y Nbr	Task Title	TOT	3LVL	5LVL	7LVL
I0368	Adjust diversity combiners	3	0	3	2
I0369	Adjust elapsed-time clocks	1	0	2	0
I0370	Adjust equipment alarm circuits or automatic fault sensing and switching networks	11	0	12	11
I0371	Adjust facsimile equipment	4	0	4	3
I0372	Adjust fiber-optic systems	7	0	9	5
I0373	Adjust frequency standards	13	0	15	11
I0374	Adjust hybrid bridges	2	0	3	1
I0375	Adjust infrared systems	2	0	3	0
I0376	Adjust laser systems	2	0	2	1
I0377	Adjust line conditioning equipment	5	0	5	4
I0378	Adjust magnetic data tape recorders	3	0	3	2
I0379	Adjust mission console workstations	1	0	1	0
I0380	Adjust munitions firing systems	1	0	2	0
I0381	Adjust optical disk recorders	1	0	1	0
I0382	Adjust optical systems	2	0	3	1
I0383	Adjust oscillators	22	33	25	16
I0384	Adjust oscillograph recorders	1	0	3	0
I0385	Adjust printers	6	33	6	6
I0386	Adjust private branch exchange (PBX) systems or switchboard interface equipment	2	0	1	3
I0387	Adjust signaling subsystems	4	0	4	3
I0388	Adjust synthesizers	20	33	22	17
I0389	Adjust transducers	4	0	6	2
I0390	Adjust transmit or receive path equalizers	9	0	10	8
I0391	Adjust uninterruptible power supplies (UPSs)	5	0	6	3
I0392	Adjust general purpose power supplies	13	33	12	14
I0393	Calibrate transducers	3	0	4	1
I0394	Operate computer processors	7	0	8	6
I0395	Perform PMIs on CCVSs	1	0	1	0
I0396	Perform PMIs on command destruct systems	0	0	0	0
I0397	Perform PMIs on computer processors	3	0	3	2
I0398	Perform PMIs on countdown clocks	1	0	2	0
I0399	Perform PMIs on digital recorders or printers	3	33	3	2
I0400	Perform PMIs on elapsed-time clocks	1	0	1	0
I0401	Perform PMIs on infrared systems	1	0	1	0
I0402	Perform PMIs on laser systems	1	0	2	1
I0403	Perform PMIs on magnetic data tape recorders	3	0	3	2
I0404	Perform PMIs on mission console workstations	1	0	1	0
I0405	Perform PMIs on munitions firing systems	1	0	1	0
I0406	Perform PMIs on optical disk recorder	1	0	2	0
I0407	Perform PMIs on optical systems	2	0	3	1
I0408	Perform PMIs on oscillograph recorders	1	0	3	0
I0409	Perform PMIs on analog-to-digital or digital-to-analog converters	16	0	21	9
I0410	Perform PMIs on attenuator pads	8	0	11	3
I0411	Perform PMIs on automatic or manual transfer units or	4	0	4	2

	switching panels				
I0412	Perform PMIs on BITE	25	0	28	21

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T Tsk		ANG	ANG	ANG	ANG
Y Nbr	Task Title	TOT	3LVL	5LVL	7LVL
I0413	Perform PMIs on distribution frames and associated wiring	3	0	4	1
I0414	Perform PMIs on diversity combiners	3	0	4	3
I0415	Perform PMIs on equipment alarm circuits or automatic fault sensing and switching networks	10	0	10	10
I0416	Perform PMIs on fiber-optic systems	9	33	9	8
I0418	Perform PMIs on hybrid bridges	2	0	3	1
I0419	Perform PMIs on hybrid term units	1	0	2	0
I0420	Perform PMIs on line conditioning equipment	5	0	5	4
I0421	Perform PMIs on magnetic data tape recorders	3	0	3	4
I0422	Perform PMIs on magnetic mass storage	1	0	1	0
I0423	Perform PMIs on oscillators	14	0	17	9
I0424	Perform PMIs on patch panels	23	33	25	21
I0425	Perform PMIs on printers	6	33	5	7
I0426	Perform PMIs on RF combiners	15	0	15	16
I0427	Perform PMIs on remote control devices	9	0	8	9
I0428	Perform PMIs on station batteries	5	33	4	5
I0429	Perform PMIs on UPSs	5	0	7	4
I0430	Remove or replace AFCs	4	0	4	4
I0431	Remove or replace analog-to-digital or digital-to-analog converters	19	0	23	13
I0432	Remove or replace attenuators	24	33	25	22
I0433	Remove or replace automatic or manual transfer units or switching panels	5	0	7	3
I0434	Remove or replace battery charging systems	7	33	7	8
I0435	Remove or replace BITE	26	0	28	25
I0436	Remove or replace carrier-level detectors	6	0	6	5
I0437	Remove or replace CCVSS	3	0	3	1
I0438	Remove or replace command destruct systems	1	0	1	0
I0439	Remove or replace countdown clocks	1	0	2	0
I0440	Remove or replace digital recorders or printers	4	33	4	4
I0441	Remove or replace elapsed-time clocks	1	0	1	0
I0442	Remove or replace equipment alarm circuits or automatic fault sensing and switching networks	6	0	8	4
I0443	Remove or replace fiber-optic system components	10	33	11	9
I0444	Remove or replace frequency standards	12	33	11	14
I0445	Remove or replace hybrid bridges	2	0	2	1
I0446	Remove or replace infrared systems	1	0	2	0
I0447	Remove or replace laser systems	1	0	2	1
I0448	Remove or replace line conditioning equipment	5	0	6	4
I0449	Remove or replace line equalizers	3	0	4	2
I0450	Remove or replace magnetic data tape recorders	3	0	3	2
I0451	Remove or replace magnetic mass storage	2	0	3	1
I0452	Remove or replace mission console workstations	1	0	1	1
I0453	Remove or replace mixers	10	0	9	11
I0454	Remove or replace munitions firing systems	1	0	1	0
I0455	Remove or replace optical disk recorders	1	0	1	0



I0456	Remove or replace optical systems	2	0	3	1
I0457	Remove or replace oscillators	16	0	17	15
I0458	Remove or replace oscillograph recorders	1	0	2	0

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T Tsk		ANG	ANG	ANG	ANG
Y Nbr	Task Title	TOT	3LVL	5LVL	7LVL
I0459	Remove or replace patch panels	17	0	16	17
I0460	Remove or replace printers	9	33	7	10
I0461	Remove or replace remote control devices	7	0	7	7
I0462	Remove or replace RF combiners	18	0	18	17
I0463	Remove or replace signaling subsystem components	5	0	6	4
I0464	Remove or replace station batteries	8	33	7	10
I0465	Remove or replace synthesizers	20	0	19	22
I0466	Remove or replace test translators	10	0	11	10
I0467	Remove or replace transducers	5	0	6	3
I0468	Remove or replace UPS components	4	0	5	3
I0469	Remove or replace general purpose power supplies	16	33	14	19
I0470	Troubleshoot attenuators	16	0	19	13
I0471	Troubleshoot or repair AFCs	4	0	4	5
I0472	Troubleshoot or repair analog-to-digital or digital-to-analog converters	19	0	25	11
I0473	Troubleshoot or repair automatic or manual transfer units or switching panels	6	0	8	3
I0474	Troubleshoot or repair battery charging systems	6	33	4	8
I0475	Troubleshoot or repair BITE	24	33	26	22
I0476	Troubleshoot or repair carrier-level detectors	6	0	6	6
I0477	Troubleshoot or repair CCVSS	2	0	2	1
I0478	Troubleshoot or repair command destruct systems	1	0	3	0
I0479	Troubleshoot or repair computer processors	4	0	4	3
I0480	Troubleshoot or repair countdown clocks	1	0	1	0
I0481	Troubleshoot or repair cryptographic equipment	10	0	10	9
I0482	Troubleshoot or repair digital recorders or printers	3	0	3	2
I0483	Troubleshoot or repair distribution frames and associated wiring	4	0	5	2
I0484	Troubleshoot or repair elapsed-time clocks	1	0	1	0
I0485	Troubleshoot or repair equipment alarm circuits or automatic fault sensing and switching networks	7	0	8	5
I0486	Troubleshoot or repair facsimile equipment	3	0	3	3
I0487	Troubleshoot or repair fiber-optic systems	9	33	8	8
I0489	Troubleshoot or repair hybrid bridges	1	0	0	1
I0490	Troubleshoot or repair infrared systems	1	0	2	0
I0491	Troubleshoot or repair laser systems	1	0	1	1
I0492	Troubleshoot or repair line conditioning equipment components	5	0	6	4
I0493	Troubleshoot or repair line equalizers	4	0	3	4
I0494	Troubleshoot or repair magnetic data tape recorders	3	0	2	3
I0495	Troubleshoot or repair magnetic mass storage	1	0	0	1
I0496	Troubleshoot or repair mission console workstations	1	0	1	0
I0497	Troubleshoot or repair mixers	9	0	11	6
I0498	Troubleshoot or repair munitions firing systems	1	0	1	0
I0499	Troubleshoot or repair optical disk recorders	1	0	3	0
I0500	Troubleshoot or repair optical systems	3	0	3	1
I0501	Troubleshoot or repair oscillators	12	33	12	12

I0502	Troubleshoot or repair oscillograph recorders	1	0	3	0
I0503	Troubleshoot or repair patch panels	24	67	24	23
I0504	Troubleshoot or repair power distribution panels	17	33	17	18

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T Tsk		ANG	ANG	ANG	ANG
Y Nbr	Task Title	TOT	3LVL	5LVL	7LVL
I0505	Troubleshoot or repair printers	7	33	6	7
I0506	Troubleshoot or repair remote control devices	6	0	6	6
I0507	Troubleshoot or repair RF combiners	17	33	16	17
I0508	Troubleshoot or repair signaling subsystems	6	0	7	4
I0509	Troubleshoot or repair synthesizers	20	67	19	20
I0510	Troubleshoot or repair test translators	9	33	8	10
I0511	Troubleshoot or repair transducers	4	0	5	1
I0512	Troubleshoot or repair UPSs	6	0	6	6
I0513	Troubleshoot or repair general purpose power supplies	21	33	19	22
J0514	Annotate master station or project logs	39	33	34	46
J0515	Compose and transmit messages using teletype equipment	4	0	3	6
J0517	Configure automatic or manual transfer units or switching panels	5	0	8	2
J0518	Configure computer based data processing equipment	6	0	7	6
J0520	Configure equipment for network operations	23	33	26	19
J0521	Configure global positioning satellite (GPS) receivers	20	67	21	17
J0525	Configure recording equipment	5	33	6	4
J0526	Configure timing equipment	38	67	40	34
J0527	Coordinate operational schedule changes with area controlling agencies	11	33	11	10
J0530	Initiate satellite equipment reports (SERs)	23	33	27	18
J0531	Monitor frequencies, such as to determine interference or equipment operation	28	33	32	22
J0532	Perform post-pass procedures	9	0	11	6
J0533	Perform pre-pass procedures	9	0	11	6
J0534	Perform amplitude linearity tests	5	0	8	1
J0535	Perform audio frequency tests	13	67	15	9
J0536	Perform baseband loading procedures	11	0	13	8
J0537	Perform baseband sweep procedures	13	33	16	8
J0539	Perform carrier-to-receiver noise density (C/kT) checks	14	0	17	10
J0540	Perform changeovers between commercial power and back up generators	26	67	25	26
J0541	Perform communications circuit fault isolation procedures	35	67	35	34
J0542	Perform frequency response tests	14	67	15	13
J0543	Perform harmonic distortion tests	10	0	14	5
J0544	Perform idle channel noise tests	18	33	19	17
J0545	Perform loop-back or end-to-end tests	58	100	61	53
J0548	Perform orderwire noise level tests	14	33	15	12
J0549	Perform patch or test facilities alternate circuit routing procedures	16	0	17	14
J0550	Perform receive link gain checks	17	0	19	13
J0553	Perform satellite acquisition procedures	49	100	50	47
J0554	Perform satellite network operations procedures	29	100	28	30
J0555	Perform satellite tracking procedures	46	100	50	41
J0556	Perform software loading procedures	16	33	16	17

J0557	Perform switchovers of equipment subassemblies to redundant equipment	26	33	26	27
J0558	Perform terminal impedance tests	9	0	11	5

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T Tsk		ANG	ANG	ANG	ANG
Y Nbr	Task Title	TOT	3LVL	5LVL	7LVL
J0559	Perform test tone level tests	21	0	19	23
J0561	Perform voltage standing wave ratio (VSWR) measurements	23	0	22	25
J0562	Report satellite status to appropriate agencies	37	33	34	40
J0563	Submit after-action reports	30	0	25	37
J0564	Submit gateway access requests	9	0	10	8
J0566	Update ephemeris sets	7	33	7	5
K0568	Adjust kineto tracking mount (KTM) systems	1	0	2	0
K0569	Analyze test requirements to determine support such as equipment, facilities, or personnel	9	0	7	12
K0570	Assemble and install cable troughs	13	0	13	12
K0571	Assemble and install interconnects	15	33	15	15
K0572	Coordinate instrumentation checkouts with other test teams	7	0	6	9
K0573	Coordinate project support agreements (PSAs) with appropriate agencies	4	0	3	5
K0574	Coordinate test directives with appropriate agencies	5	0	6	4
K0575	Coordinate test item or equipment preparation with technical data agencies or engineers	7	0	7	7
K0576	Coordinate test parameters with test directors	4	0	4	4
K0577	Coordinate test support with base or range agencies	4	0	3	5
K0578	Design or construct electronic circuits	3	0	4	3
K0579	Design or construct mounting devices	4	0	6	3
K0580	Determine power source requirements for equipment operation	9	0	7	12
K0581	Draft blueprints, cabling, circuit or wiring schematic diagrams	5	0	6	4
K0582	Draft facility layouts	5	0	3	7
K0583	Draft systems diagrams	6	0	6	6
K0584	Evaluate condition and quality of instrumentation recordings	3	0	4	2
K0585	Evaluate test locations	4	0	5	3
K0586	Evaluate test safety requirements	6	0	6	6
K0587	Fabricate or repair cable connectors	33	33	30	38
K0588	Form and fan equipment cables	9	0	10	8
K0589	Install or remove antenna systems	53	67	53	53
K0590	Install or remove cable ladders	15	33	17	12
K0591	Install or remove cabling between van sites	40	67	40	38
K0592	Install or remove distribution frames and associated wiring	10	0	10	10
K0593	Install or remove electrical conduits	13	33	14	12
K0594	Install or remove fixed communications equipment	17	33	19	12
K0595	Install or remove line conditioning equipment	9	33	8	11
K0596	Install or remove master station grounds	23	33	21	25
K0597	Install or remove power distribution systems	17	33	16	17
K0598	Install or remove power generating equipment	22	0	21	23
K0599	Interpret blueprints, cabling, circuit or wiring	20	33	20	22

	schematic diagrams				
K0600	Interpret logic diagrams	19	33	18	22
K0601	Operate KTM systems	1	0	2	0

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T Tsk Y Nbr	Task Title	ANG TOT	ANG 3LVL	ANG 5LVL	ANG 7LVL
K0602	Operate range radars	1	0	2	1
K0603	Operationally check safe and arm devices	3	0	4	1
K0604	Perform information system (IS) relocation project or scheme procedures	3	0	3	3
K0605	Perform IS removal project or scheme procedures	4	0	3	5
K0606	Perform post-installation operational tests	16	0	13	21
K0607	Perform pre-implementation surveys	9	0	7	13
K0608	Perform project or scheme reviews	6	0	5	8
K0609	Perform site survey procedures	34	33	28	42
K0610	Perform static firing of munitions or ordnance devices	3	0	4	2
K0611	Prepare job completion documentation	23	0	19	28
K0612	Prepare post-installation documentation	15	0	11	22
K0613	Prepare pre-implementation documentation	12	0	10	15
K0614	Prepare project or scheme review documentation	7	0	6	9
K0615	Prepare site for equipment installation	30	0	26	36
K0616	Prepare work phase documentation	10	0	8	13
K0617	Set up antenna systems	56	67	59	52
K0618	Set up or tear down KTM systems	1	0	1	0
K0619	Set up or tear down range radars	2	0	3	1
K0620	Site antenna systems	33	0	32	35
K0621	Site KTM systems	1	0	2	0
L0622	Adjust daily maintenance plans to meet operational commitments	22	33	13	34
L0623	Analyze core automated maintenance system (CAMS), Reliability and Maintainability Information System (REMIS), Improved Maintenance Management Program (IMMP), or GO81 data	16	33	15	17
L0624	Clear Red-X or hazardous conditions	6	0	6	6
L0625	Develop equipment inventory listings (EILs) and master PMI listings	12	33	7	17
L0626	Evaluate new, modified, or prototype equipment	9	0	8	11
L0627	Identify problem areas using deficiency, service, or status reports, such as reports of deficiency (RODs) or product quality deficiency reports (PQDRs), other than equipment or supply	14	33	10	20
L0628	Initiate or annotate aircraft flight or maintenance records, such as AFTO Forms 781 (Aircrew/Mission Flight Data Document) or 349 (Maintenance Data Collection Record)-series	5	0	5	6
L0629	Initiate or coordinate deficiency, service, or status reports, such as RODs or PQDRs	11	33	7	15
L0630	Maintain due-in-from-maintenance (DIFM) transaction reports	13	33	8	19
L0631	Perform time compliance technical order (TCTO) inspections	36	33	28	46
L0632	Report equipment status to appropriate agencies	22	0	28	41



L0633 Retrieve CAMS, REMIS, IMMP, or GO81 listings or  
reports

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T Tsk Y Nbr	Task Title	ANG TOT	ANG 3LVL	ANG 5LVL	ANG 7LVL
L0634	Review aircraft flight or maintenance records, such as AFTO Forms 781 or 349-series	7	0	7	7
L0635	Review preventive maintenance schedules	41	67	33	51
L0636	Update EIL and master PMI listings	14	33	11	19
L0637	Update manual documents, such as AFTO Form 349 (Maintenance Data Collection Record)	31	33	24	40
L0638	Update historical reports in CAMS, REMIS, IMMP, or GO81	28	33	21	36
L0640	Update personnel data files in CAMS, REMIS, IMMP, or GO81	22	33	16	31
L0641	Update workcenter training reports in CAMS, REMIS, IMMP, or GO81	22	33	17	29
L0642	Verify accuracy of CAMS, REMIS, IMMP, or GO81 daily inputs	18	33	14	23
M0643	Compile data for records, reports, logs, or trend analyses	20	0	15	27
M0644	Complete accident or incident reports	24	33	17	33
M0645	Destroy classified materials or documents	37	33	30	47
M0646	Establish or maintain automated technical order management system (ATOMS) accounts	14	33	8	23
M0647	Establish or maintain accountability records for classified materials or documents	19	33	14	27
M0648	Identify and report suspected security compromises	31	67	26	36
M0649	Initiate classified reports, messages, or documents	9	0	7	13
M0651	Initiate or maintain standby rosters or workcenter pyramid recall rosters	19	33	10	31
M0652	Initiate requests for temporary duty (TDY) orders	18	33	11	27
M0653	Inventory classified materials or documents	28	67	23	34
M0654	Maintain administrative files	23	33	13	38
M0655	Maintain publications libraries, other than TO libraries	18	33	10	29
M0656	Maintain time compliance technical orders (TCTOs)	26	33	18	37
M0658	Maintain or update status indicators, such as boards, graphs, or charts	23	33	15	33
M0659	Participate in TCTO meetings	9	33	6	13
M0660	Prepare administrative or classified materials or documents for mailing, transporting, or issue	8	0	6	11
M0661	Review TO changes	35	33	30	42
M0662	Review TO improvement reports, such as AFTO Forms 22	21	33	16	27
M0663	Write minutes of briefings, conferences, or meetings	14	33	8	22
N0664	Coordinate maintenance of equipment with appropriate agencies	24	33	14	38
N0665	Develop equipment checklists	29	33	22	39
N0666	Establish requirements for equipment, tools, parts or supplies	23	0	18	29
N0667	Evaluate serviceability of equipment, tools, parts, or supplies	36	67	29	45

N0669	Initiate requisitions for equipment, tools, parts, or supplies	34	100	23	47
N0670	Inventory equipment, tools, parts, or supplies	56	100	51	63

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T Tsk		ANG	ANG	ANG	ANG
Y Nbr	Task Title	TOT	3LVL	5LVL	7LVL
N0671	Issue or log turn-ins of equipment, tools, parts, or supplies	29	100	21	39
N0672	Maintain documentation on items requiring periodic inspections or calibrations	30	67	24	37
N0673	Maintain organizational equipment or supply records	20	67	14	27
N0674	Pick up, deliver, or store equipment, tools, parts, or supplies	37	67	33	40
O0675	Assign personnel to mobility or contingency positions	11	0	4	19
O0676	Brief deploying personnel	15	0	6	27
O0677	Compile or prepare status of resources training systems (SORTSS)	8	0	6	10
O0678	Complete operations plan (OPLAN) sourcing requirements	5	0	3	6
O0679	Compute OPLAN requirements status listings	4	0	3	4
O0680	Conduct contingency operation or mobility planning and execution system (COMPES) programs	4	0	3	5
O0681	Conduct mobility or deployment site surveys	25	33	17	37
O0682	Configure mobile vans	40	67	39	40
O0683	Coordinate area port joint inspections with area port squadrons	3	0	3	2
O0684	Coordinate deployment of personnel with other MAJCOMs or joint service commands	5	0	3	7
O0685	Coordinate exercise sourcing requirements with functional managers	3	0	4	2
O0686	Coordinate limited technical inspection (LTI) vehicle inspections with vehicle maintenance	5	0	4	6
O0687	Coordinate mobility or contingency requirements with appropriate agencies	6	0	4	8
O0688	Coordinate specific source of personnel requirements with appropriate agencies	5	33	4	7
O0689	Determine cost factors for support agreements	3	0	3	2
O0690	Determine specific source of personnel requirements for deployment manning documents	4	0	3	5
O0691	Develop contingency exercise mobility (CEM) orders	2	0	3	1
O0692	Develop cut sheets	30	0	23	39
O0693	Develop maintenance plans	17	0	9	28
O0694	Develop mobility inspection checklists	17	33	9	29
O0695	Dig trenches, such as around tents and shelters	29	33	26	33
O0696	Don or doff chemical warfare personal protective clothing	56	33	48	67
O0697	Draft mobility or deployment after-action reports	21	0	11	34
O0698	Initiate or process acquisition documents, such as requests for proposals (RFPs)	3	0	2	4
O0699	Initiate or process modification management documents (MMDs)	3	0	2	3
O0700	Inspect cut sheets	41	33	36	46
O0701	Inspect launch support systems	2	0	2	1
O0702	Inspect mobility bags or bins	27	33	25	40

00703	Inspect packed or palletized mobility or contingency equipment prior to transport	30	33	24	39
00704	Install ground systems at deployed locations	38	67	32	45

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T Tsk Y Nbr	Task Title	ANG TOT	ANG 3LVL	ANG 5LVL	ANG 7LVL
00705	Load plan aircraft for deployments	7	0	5	9
00706	Maintain disaster preparedness checklists	12	33	9	16
00707	Maintain accountability of personnel selected to fill OPLAN requirements	7	0	5	11
00708	Maintain base OPLAN files	3	0	3	3
00709	Pack or palletize mobility or contingency equipment for shipment or movement such as, airlift, road, or sealift	42	33	39	48
00710	Perform camouflage procedures	54	33	51	57
00711	Perform camp security	46	67	43	49
00712	Perform chemical warfare agent decontamination procedures	40	33	37	45
00713	Perform disease or pestilence countermeasures	11	0	9	14
00714	Perform explosive ordnance reconnaissance	25	0	22	31
00715	Perform pallet buildup activities	50	0	47	53
00716	Perform path profile procedures	14	0	8	21
00717	Perform plans file and mobility file matches	4	0	3	5
00718	Perform predeployment reconnaissance surveys	10	33	6	14
00719	Perform site surveys for ground systems	26	0	19	35
00720	Perform source selection evaluation team (SSET) activities	3	0	3	4
00721	Perform cover and concealment techniques for work party security	15	33	13	18
00722	Perform or set up site security	32	67	31	34
00723	Submit or process award fees	2	0	3	2
00724	Submit or process requirement documents	6	0	6	6
00725	Prepare equipment for deployments	45	67	39	52
00726	Submit or process incentive fees	2	0	2	1
00727	Prepare sites at deployed locations, such as cutting grass or removing snow	24	33	20	29
00728	Process classified materials or documents at deployed locations	16	0	11	24
00729	Provide OPLAN requirements status listings to unit commanders	4	0	3	6
00730	Request or distribute mobility requirements documents	6	0	3	9
00731	Review contract action requests (CARs)	1	0	2	1
00732	Review engineer change proposals (ECPs)	4	0	3	5
00733	Review requirement documents	8	0	5	12
00734	Set up or tear down shelters	57	67	57	58
00735	Set up or tear down tents	63	33	61	65
00736	Tear down, inspect, clean, and reassemble weapons	49	67	44	56
00737	Test ground systems at deployed locations	34	67	28	42
00738	Update SORTS reports	8	0	4	14
P0739	Administer or score tests	14	0	8	23
P0740	Brief personnel concerning training programs or matters	28	33	13	47
P0741	Complete student entry or withdrawal forms	8	0	6	11

P0742	Conduct formal course classroom training	12	0	8	18
P0743	Conduct on-the-job training (OJT)	53	67	36	74
P0744	Counsel trainees on training progress	36	33	16	64

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T Tsk		ANG	ANG	ANG	ANG
Y Nbr	Task Title	TOT	3LVL	5LVL	7LVL
P0745	Determine training requirements	30	0	14	52
P0746	Develop formal course curricula, plans of instruction (POIs), or specialty training standards (STSS)	8	0	5	13
P0747	Develop training programs, plans, or procedures	25	0	9	46
P0748	Develop written tests	10	0	5	17
P0749	Develop or procure training materials or aids	21	0	12	33
P0750	Establish or maintain study reference files	15	0	8	24
P0751	Evaluate training methods or techniques of instructors	15	0	10	21
P0752	Evaluate effectiveness of training programs, plans, or procedures	18	0	10	30
P0753	Evaluate progress of trainees	33	33	14	58
P0754	Inspect training materials or aids for operation or suitability	18	0	11	29
P0755	Maintain training records or files	42	33	29	60
P0756	Personalize lesson plans	18	0	9	30
P0757	Prepare job qualification standards (JQSs)	17	33	8	28
P0758	Write training reports	13	33	7	21
Q0759	Annotate time and attendance sheets for civilian employees	6	0	4	8
Q0760	Assign personnel to work areas or duty positions	21	0	8	39
Q0761	Assign sponsors for newly assigned personnel	13	33	4	24
Q0762	Conduct general meetings, such as staff meetings, briefings, conferences, or workshops	15	0	7	26
Q0763	Conduct self-inspections or self-assessments	24	0	15	35
Q0764	Conduct staff assistance visits, inspections, or audits	5	0	2	9
Q0765	Conduct supervisory performance feedback sessions	13	0	5	24
Q0766	Conduct safety inspections of equipment or facilities	25	0	16	38
Q0767	Conduct supervisory orientations for newly assigned personnel	21	33	8	37
Q0768	Counsel subordinates concerning personal matters	25	33	10	45
Q0769	Determine or establish logistics requirements, such as personnel, equipment, tools, parts, supplies, or workspace	15	33	6	28
Q0770	Determine or establish work assignments or priorities	26	33	7	51
Q0771	Develop organizational or functional charts	12	0	4	21
Q0772	Develop resource protection programs	7	0	4	10
Q0773	Develop self-inspection or self-assessment program checklists	12	33	5	21
Q0774	Develop inputs to mobility, contingency, disaster preparedness, or unit emergency or alert plans	10	0	6	15
Q0775	Develop or establish work methods or procedures	18	0	8	31
Q0776	Develop or establish work schedules	25	33	8	46
Q0777	Draft budget requirements	3	0	2	4
Q0778	Draft host-tenant or interservice agreements	2	0	3	0
Q0779	Draft supplements or changes to directives, such as policy directives, instructions, or manuals	4	0	4	5



Q0780	Establish organizational policies, such as operating instructions (OIs) or standard operating procedures (SOPs)	6	0	3	10
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Y Nbr	Task Title	TOT	3LVL	5LVL	7LVL
Q0781	Establish performance standards for subordinates	14	33	6	25
Q0782	Establish procedures for accountability of equipment, tools, parts, or supplies	15	33	8	24
Q0783	Evaluate inspection report findings or inspection procedures	11	0	6	19
Q0784	Evaluate job hazards or compliance with Air Force Occupational Safety and Health (AFOSH) Program	22	0	15	32
Q0785	Evaluate personnel for compliance with performance standards	26	33	11	46
Q0786	Evaluate personnel for promotion, demotion, reclassification, or special awards	23	33	7	44
Q0787	Evaluate maintenance or utilization of equipment, tools, parts, supplies, or workspace	20	33	9	34
Q0788	Implement safety or security programs	24	0	15	35
Q0789	Initiate personnel action requests	12	0	6	21
Q0790	Initiate actions required due to substandard performance of personnel	16	33	6	30
Q0791	Inspect personnel for compliance with military standards	32	33	16	54
Q0792	Interpret policies, directives, or procedures for subordinates	24	33	11	41
Q0793	Investigate accidents or incidents	11	33	5	19
Q0794	Plan layouts of facilities	10	0	5	18
Q0795	Review budget requirements	4	0	3	5
Q0796	Review host-tenant or interservice agreements	3	0	3	3
Q0797	Review mobility, contingency, disaster preparedness, or unit emergency or alert plans	12	33	7	17
Q0798	Review drafts of supplements or changes to directives, such as policy directives, instructions, or manuals	9	33	4	15
Q0799	Schedule personnel for TDY assignments, leaves, or passes	10	33	3	20
Q0800	Write inspection reports	10	0	5	18
Q0801	Write job or position descriptions	10	0	6	16
Q0802	Write staff studies, surveys, or routine reports, other than training or inspection reports	5	0	4	7
Q0803	Write or indorse civilian performance appraisals	3	0	2	4
Q0804	Write or indorse military performance reports	7	0	4	11
Q0805	Write recommendations for awards or decorations	19	33	7	36
Q0806	Write replies to inspection reports	12	0	4	24



Satellite, Wideband, And Telemetry Systems  
Reported AFSC(s): 2E1X1

## ----- Variable/Group Distributions -----

The percent of reported group members who use, maintain or operate various types of equipment are presented under the column headings for the appropriate group. This percent using, maintaining, or operating equipment may be valuable in determining the relevancy of training and testing on or about these types of equipment.

Reports on the following groups were requested:

gp0010: All Air Guard Airmen with DAFSC 2E1X1	(n = 478)
gp0011: All Air Guard Airmen with DAFSC 2E131	(n = 3)
gp0012: All Air Guard Airmen with DAFSC 2E151	(n = 272)
gp0013: All Air Guard Airmen with DAFSC 2E171	(n = 203)

V0105 Indicate which systems you use or maintain - None

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Interval Percentages				
Yes	10 %	0 %	8 %	13 %
Other:	90 %	100 %	92 %	87 %
Total in group:	478*	3*	272*	203*

V0106 Indicate which systems you use or maintain - Antennas

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Interval Percentages				
Yes	73 %	100 %	78 %	67 %
Other:	27 %	0 %	22 %	33 %
Total in group:	478*	3*	272*	203*



V0107 Indicate which systems you use or maintain - Computer Networks

	ANG TOT	ANG 3-LVL	ANG 5-LVL	ANG 7-LVL
Interval Percentages	gp0010	gp0011	gp0012	gp0013
Yes	13 %	0 %	13 %	14 %
Other:	87 %	100 %	88 %	86 %
Total in group:	478*	3*	272*	203*

V0108 Indicate which systems you use or maintain - Cryptographic

	ANG TOT	ANG 3-LVL	ANG 5-LVL	ANG 7-LVL
Interval Percentages	gp0010	gp0011	gp0012	gp0013
Yes	41 %	33 %	45 %	36 %
Other:	59 %	67 %	55 %	64 %
Total in group:	478*	3*	272*	203*

V0109 Indicate which systems you use or maintain - Data Collection

	ANG TOT	ANG 3-LVL	ANG 5-LVL	ANG 7-LVL
Interval Percentages	gp0010	gp0011	gp0012	gp0013
Yes	10 %	0 %	9 %	11 %
Other:	90 %	100 %	91 %	89 %
Total in group:	478*	3*	272*	203*

V0110 Indicate which systems you use or maintain - Ground Mobile Forces (GMFs)

	ANG TOT	ANG 3-LVL	ANG 5-LVL	ANG 7-LVL
Interval Percentages	gp0010	gp0011	gp0012	gp0013
Yes	29 %	33 %	25 %	33 %
Other:	71 %	67 %	75 %	67 %
Total in group:	478*	3*	272*	203*



V0111 Indicate which systems you use or maintain - Instrumentation

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	15 %	33 %	19 %	9 %
Other:	85 %	67 %	81 %	91 %
Total in group:	478*	3*	272*	203*

V0112 Indicate which systems you use or maintain - Laser or Optical

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	6 %	0 %	6 %	6 %
Other:	94 %	100 %	94 %	94 %
Total in group:	478*	3*	272*	203*

V0113 Indicate which systems you use or maintain - Line Conditioning Units

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	9 %	0 %	9 %	9 %
Other:	91 %	100 %	91 %	91 %
Total in group:	478*	3*	272*	203*

V0114 Indicate which systems you use or maintain - Line of Sight Communications

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	59 %	67 %	63 %	53 %
Other:	41 %	33 %	37 %	47 %
Total in group:	478*	3*	272*	203*





## V0115 Indicate which systems you use or maintain - Modems

	ANG TOT	ANG 3-LVL	ANG 5-LVL	ANG 7-LVL
Interval Percentages	gp0010	gp0011	gp0012	gp0013
Yes	70 %	100 %	75 %	63 %
Other:	30 %	0 %	25 %	37 %
Total in group:	478*	3*	272*	203*

## V0116 Indicate which systems you use or maintain - Multiplexers

	ANG TOT	ANG 3-LVL	ANG 5-LVL	ANG 7-LVL
Interval Percentages	gp0010	gp0011	gp0012	gp0013
Yes	74 %	100 %	79 %	67 %
Other:	26 %	0 %	21 %	33 %
Total in group:	478*	3*	272*	203*

## V0117 Indicate which systems you use or maintain - Radios

	ANG TOT	ANG 3-LVL	ANG 5-LVL	ANG 7-LVL
Interval Percentages	gp0010	gp0011	gp0012	gp0013
Yes	56 %	67 %	57 %	53 %
Other:	44 %	33 %	43 %	47 %
Total in group:	478*	3*	272*	203*

## V0118 Indicate which systems you use or maintain - Satellite Communications

	ANG TOT	ANG 3-LVL	ANG 5-LVL	ANG 7-LVL
Interval Percentages	gp0010	gp0011	gp0012	gp0013
Yes	67 %	67 %	70 %	64 %
Other:	33 %	33 %	30 %	36 %
Total in group:	478*	3*	272*	203*



## V0119 Indicate which systems you use or maintain - Satellite Meteorology

	ANG TOT	ANG 3-LVL	ANG 5-LVL	ANG 7-LVL
Interval Percentages	gp0010	gp0011	gp0012	gp0013
Yes	0 %	0 %	0 %	0 %
Other:	100 %	100 %	100 %	100 %
Total in group:	478*	3*	272*	203*

## V0120 Indicate which systems you use or maintain - Satellite Navigation

	ANG TOT	ANG 3-LVL	ANG 5-LVL	ANG 7-LVL
Interval Percentages	gp0010	gp0011	gp0012	gp0013
Yes	2 %	0 %	3 %	2 %
Other:	98 %	100 %	97 %	98 %
Total in group:	478*	3*	272*	203*

## V0121 Indicate which systems you use or maintain - Satellite Surveillance

	ANG TOT	ANG 3-LVL	ANG 5-LVL	ANG 7-LVL
Interval Percentages	gp0010	gp0011	gp0012	gp0013
Yes	1 %	0 %	1 %	1 %
Other:	99 %	100 %	99 %	99 %
Total in group:	478*	3*	272*	203*

## V0122 Indicate which systems you use or maintain - Telemetry

	ANG TOT	ANG 3-LVL	ANG 5-LVL	ANG 7-LVL
Interval Percentages	gp0010	gp0011	gp0012	gp0013
Yes	15 %	0 %	21 %	8 %
Other:	85 %	100 %	79 %	92 %
Total in group:	478*	3*	272*	203*



## V0123 Indicate which systems you use or maintain - Timing

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	39 %	0 %	43 %	35 %
Other:	61 %	100 %	57 %	65 %
Total in group:	478*	3*	272*	203*

## V0124 Indicate which systems you use or maintain - Tracking

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	33 %	0 %	36 %	31 %
Other:	67 %	100 %	64 %	69 %
Total in group:	478*	3*	272*	203*

## V0125 Indicate which systems you use or maintain - Troposphere Communications

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	53 %	67 %	57 %	48 %
Other:	47 %	33 %	43 %	52 %
Total in group:	478*	3*	272*	203*

## V0126 Indicate which systems you use or maintain - Other

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	9 %	33 %	10 %	7 %
Other:	91 %	67 %	90 %	93 %
Total in group:	478*	3*	272*	203*



## V0127 Test equip use or operate - None

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	6 %	0 %	4 %	10 %
Other:	94 %	100 %	96 %	90 %
Total in group:	478*	3*	272*	203*

## V0128 Test equip use or operate - Analyzers, Data

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	20 %	0 %	17 %	25 %
Other:	80 %	100 %	83 %	75 %
Total in group:	478*	3*	272*	203*

## V0129 Test equip use or operate - Analyzers, Distortion

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	14 %	33 %	13 %	16 %
Other:	86 %	67 %	88 %	84 %
Total in group:	478*	3*	272*	203*

## V0130 Test equip use or operate - Analyzers, Logic State

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	6 %	0 %	6 %	6 %
Other:	94 %	100 %	94 %	94 %
Total in group:	478*	3*	272*	203*





## V0131 Test equip use or operate - Analyzers, Microwave Link

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	14 %	33 %	13 %	15 %
Other:	86 %	67 %	88 %	85 %
Total in group:	478*	3*	272*	203*

## V0132 Test equip use or operate - Analyzers, Network

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	6 %	0 %	6 %	5 %
Other:	94 %	100 %	94 %	95 %
Total in group:	478*	3*	272*	203*

## V0133 Test equip use or operate - Analyzers, Sideband

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	6 %	0 %	8 %	3 %
Other:	94 %	100 %	92 %	97 %
Total in group:	478*	3*	272*	203*

## V0134 Test equip use or operate - Analyzers, Signature

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	1 %	0 %	2 %	1 %
Other:	99 %	100 %	98 %	99 %
Total in group:	478*	3*	272*	203*



## V0135 Test equip use or operate - Analyzers, Spectrum

	ANG TOT	ANG 3-LVL	ANG 5-LVL	ANG 7-LVL
Interval Percentages	gp0010	gp0011	gp0012	gp0013
Yes	75 %	67 %	76 %	73 %
Other:	25 %	33 %	24 %	27 %
Total in group:	478*	3*	272*	203*

## V0136 Test equip use or operate - Atomic Oscillators

	ANG TOT	ANG 3-LVL	ANG 5-LVL	ANG 7-LVL
Interval Percentages	gp0010	gp0011	gp0012	gp0013
Yes	4 %	67 %	5 %	2 %
Other:	96 %	33 %	95 %	98 %
Total in group:	478*	3*	272*	203*

## V0137 Test equip use or operate - Attenuators, Decibel (Db)

	ANG TOT	ANG 3-LVL	ANG 5-LVL	ANG 7-LVL
Interval Percentages	gp0010	gp0011	gp0012	gp0013
Yes	56 %	100 %	56 %	57 %
Other:	44 %	0 %	44 %	43 %
Total in group:	478*	3*	272*	203*

## V0138 Test equip use or operate - Attenuators, Fixed

	ANG TOT	ANG 3-LVL	ANG 5-LVL	ANG 7-LVL
Interval Percentages	gp0010	gp0011	gp0012	gp0013
Yes	61 %	100 %	63 %	59 %
Other:	39 %	0 %	38 %	41 %
Total in group:	478*	3*	272*	203*



## V0139 Test equip use or operate - Attenuators, Variable

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	64 %	100 %	67 %	59 %
Other:	36 %	0 %	33 %	41 %
Total in group:	478*	3*	272*	203*

## V0140 Test equip use or operate - Audio Oscillators

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	22 %	33 %	19 %	27 %
Other:	78 %	67 %	81 %	73 %
Total in group:	478*	3*	272*	203*

## V0141 Test equip use or operate - Boxes, Capacitance Substitution

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	2 %	0 %	1 %	2 %
Other:	98 %	100 %	99 %	98 %
Total in group:	478*	3*	272*	203*

## V0142 Test equip use or operate - Boxes, Resistance Substitution

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	3 %	0 %	3 %	2 %
Other:	97 %	100 %	97 %	98 %
Total in group:	478*	3*	272*	203*



## V0143 Test equip use or operate - Break Out Boxes (BOBs)

	ANG TOT gp00010	ANG 3-LVL gp00011	ANG 5-LVL gp00012	ANG 7-LVL gp00013
Yes	12 %	67 %	8 %	16 %
Other:	88 %	33 %	92 %	84 %
Total in group:	478*	3*	272*	203*

## V0144 Test equip use or operate - Built-In Test Equipment

	ANG TOT gp00010	ANG 3-LVL gp00011	ANG 5-LVL gp00012	ANG 7-LVL gp00013
Yes	69 %	67 %	73 %	64 %
Other:	31 %	33 %	27 %	36 %
Total in group:	478*	3*	272*	203*

## V0145 Test equip use or operate - Calibrators, Direct Current (DC)

	ANG TOT gp00010	ANG 3-LVL gp00011	ANG 5-LVL gp00012	ANG 7-LVL gp00013
Yes	10 %	0 %	15 %	3 %
Other:	90 %	100 %	85 %	97 %
Total in group:	478*	3*	272*	203*

## V0146 Test equip use or operate - Calibrators, other than DC

	ANG TOT gp00010	ANG 3-LVL gp00011	ANG 5-LVL gp00012	ANG 7-LVL gp00013
Yes	6 %	0 %	8 %	2 %
Other:	94 %	100 %	92 %	98 %
Total in group:	478*	3*	272*	203*





## V0147 Test equip use or operate - Calibrators, Heat Source

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	2 %	0 %	4 %	0 %
Other:	98 %	100 %	96 %	100 %
Total in group:	478*	3*	272*	203*

## V0148 Test equip use or operate - Calipers

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	5 %	0 %	7 %	3 %
Other:	95 %	100 %	93 %	97 %
Total in group:	478*	3*	272*	203*

## V0149 Test equip use or operate - Checkers, Capacitor

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	5 %	0 %	6 %	4 %
Other:	95 %	100 %	94 %	96 %
Total in group:	478*	3*	272*	203*

## V0150 Test equip use or operate - Combined Maintenance Bench Sets (CMBSS)

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	5 %	0 %	5 %	4 %
Other:	95 %	100 %	95 %	96 %
Total in group:	478*	3*	272*	203*



## V0151 Test equip use or operate - Counters, Error

	ANG TOT	ANG 3-LVL	ANG 5-LVL	ANG 7-LVL
Interval Percentages	gp0010	gp0011	gp0012	gp0013
Yes	22 %	33 %	22 %	21 %
Other:	78 %	67 %	78 %	79 %
Total in group:	478*	3*	272*	203*

## V0152 Test equip use or operate - Counters, Frequency

	ANG TOT	ANG 3-LVL	ANG 5-LVL	ANG 7-LVL
Interval Percentages	gp0010	gp0011	gp0012	gp0013
Yes	64 %	100 %	63 %	65 %
Other:	36 %	0 %	37 %	35 %
Total in group:	478*	3*	272*	203*

## V0153 Test equip use or operate - Crystal Detectors

	ANG TOT	ANG 3-LVL	ANG 5-LVL	ANG 7-LVL
Interval Percentages	gp0010	gp0011	gp0012	gp0013
Yes	8 %	0 %	9 %	7 %
Other:	92 %	100 %	91 %	93 %
Total in group:	478*	3*	272*	203*

## V0154 Test equip use or operate - Digital Logic Clips

	ANG TOT	ANG 3-LVL	ANG 5-LVL	ANG 7-LVL
Interval Percentages	gp0010	gp0011	gp0012	gp0013
Yes	2 %	0 %	2 %	2 %
Other:	98 %	100 %	98 %	98 %
Total in group:	478*	3*	272*	203*



## V0155 Test equip use or operate - Digital Logic Comparators

	ANG TOT	ANG 3-LVL	ANG 5-LVL	ANG 7-LVL
Interval Percentages	gp0010	gp0011	gp0012	gp0013
Yes	3 %	0 %	3 %	2 %
Other:	97 %	100 %	97 %	98 %
Total in group:	478*	3*	272*	203*

## V0156 Test equip use or operate - Directional Couplers

	ANG TOT	ANG 3-LVL	ANG 5-LVL	ANG 7-LVL
Interval Percentages	gp0010	gp0011	gp0012	gp0013
Yes	33 %	33 %	35 %	30 %
Other:	67 %	67 %	65 %	70 %
Total in group:	478*	3*	272*	203*

## V0157 Test equip use or operate - Dummy Loads

	ANG TOT	ANG 3-LVL	ANG 5-LVL	ANG 7-LVL
Interval Percentages	gp0010	gp0011	gp0012	gp0013
Yes	75 %	100 %	78 %	70 %
Other:	25 %	0 %	22 %	30 %
Total in group:	478*	3*	272*	203*

## V0158 Test equip use or operate - Frequency Measuring Sets

	ANG TOT	ANG 3-LVL	ANG 5-LVL	ANG 7-LVL
Interval Percentages	gp0010	gp0011	gp0012	gp0013
Yes	39 %	67 %	36 %	43 %
Other:	61 %	33 %	64 %	57 %
Total in group:	478*	3*	272*	203*



## V0159 Test equip use or operate - Generators, Audio Signal

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	35 %	33 %	33 %	39 %
Other:	65 %	67 %	67 %	61 %
Total in group:	478*	3*	272*	203*

## V0160 Test equip use or operate - Generators, Function

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	20 %	33 %	21 %	18 %
Other:	80 %	67 %	79 %	82 %
Total in group:	478*	3*	272*	203*

## V0161 Test equip use or operate - Generators, Noise

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	47 %	67 %	50 %	42 %
Other:	53 %	33 %	50 %	58 %
Total in group:	478*	3*	272*	203*

## V0162 Test equip use or operate - Generators, Pattern

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	11 %	0 %	13 %	7 %
Other:	89 %	100 %	87 %	93 %
Total in group:	478*	3*	272*	203*





## V0163 Test equip use or operate - Generators, Radio Frequency (RF) Signal

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	56 %	67 %	55 %	57 %
Other:	44 %	33 %	45 %	43 %
Total in group:	478*	3*	272*	203*

## V0164 Test equip use or operate - Generators, Serial Data

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	5 %	0 %	7 %	3 %
Other:	95 %	100 %	93 %	97 %
Total in group:	478*	3*	272*	203*

## V0165 Test equip use or operate - Generators, Signal

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	48 %	0 %	53 %	42 %
Other:	52 %	100 %	47 %	58 %
Total in group:	478*	3*	272*	203*

## V0166 Test equip use or operate - Generators, Superhigh Frequency (SHF)

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	26 %	0 %	26 %	27 %
Other:	74 %	100 %	74 %	73 %
Total in group:	478*	3*	272*	203*



## V0167 Test equip use or operate - Generators, Sweep

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Interval Percentages				
Yes	23 %	33 %	28 %	16 %
Other:	77 %	67 %	72 %	84 %
Total in group:	478*	3*	272*	203*

## V0168 Test equip use or operate - Generators, Synchronization

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Interval Percentages				
Yes	6 %	0 %	8 %	4 %
Other:	94 %	100 %	92 %	96 %
Total in group:	478*	3*	272*	203*

## V0169 Test equip use or operate - Generators, Time Code

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Interval Percentages				
Yes	6 %	0 %	7 %	4 %
Other:	94 %	100 %	93 %	96 %
Total in group:	478*	3*	272*	203*

## V0170 Test equip use or operate - Generators, Time Code Translators

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Interval Percentages				
Yes	2 %	0 %	2 %	1 %
Other:	98 %	100 %	98 %	99 %
Total in group:	478*	3*	272*	203*



## V0171 Test equip use or operate - Generators, Ultrahigh Frequency

	ANG TOT	ANG 3-LVL	ANG 5-LVL	ANG 7-LVL
Interval Percentages	gp0010	gp0011	gp0012	gp0013
Yes	7 %	0 %	7 %	7 %
Other:	93 %	100 %	93 %	93 %
Total in group:	478*	3*	272*	203*

## V0172 Test equip use or operate - Global Positioning Systems (GPSs)

	ANG TOT	ANG 3-LVL	ANG 5-LVL	ANG 7-LVL
Interval Percentages	gp0010	gp0011	gp0012	gp0013
Yes	35 %	33 %	35 %	35 %
Other:	65 %	67 %	65 %	65 %
Total in group:	478*	3*	272*	203*

## V0173 Test equip use or operate - Kineto Tracking Mounts (KTMs)

	ANG TOT	ANG 3-LVL	ANG 5-LVL	ANG 7-LVL
Interval Percentages	gp0010	gp0011	gp0012	gp0013
Yes	1 %	0 %	1 %	0 %
Other:	99 %	100 %	99 %	100 %
Total in group:	478*	3*	272*	203*

## V0174 Test equip use or operate - Laptop or Notebook Computers

	ANG TOT	ANG 3-LVL	ANG 5-LVL	ANG 7-LVL
Interval Percentages	gp0010	gp0011	gp0012	gp0013
Yes	46 %	33 %	44 %	50 %
Other:	54 %	67 %	56 %	50 %
Total in group:	478*	3*	272*	203*



## V0175 Test equip use or operate - Megaohmmeters

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	17 %	33 %	13 %	21 %
Other:	83 %	67 %	87 %	79 %
Total in group:	478*	3*	272*	203*

## V0176 Test equip use or operate - Meters, Audio Distortion

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	9 %	0 %	8 %	9 %
Other:	91 %	100 %	92 %	91 %
Total in group:	478*	3*	272*	203*

## V0177 Test equip use or operate - Meters, Capacitance or Induction

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	14 %	0 %	15 %	14 %
Other:	86 %	100 %	85 %	86 %
Total in group:	478*	3*	272*	203*

## V0178 Test equip use or operate - Meters, Db

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	38 %	67 %	37 %	40 %
Other:	62 %	33 %	63 %	60 %
Total in group:	478*	3*	272*	203*





## V0179 Test equip use or operate - Meters, Fiber-Optic

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	14 %	0 %	14 %	13 %
Other:	86 %	100 %	86 %	87 %
Total in group:	478*	3*	272*	203*

## V0180 Test equip use or operate - Meters, Flutter

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	2 %	0 %	3 %	1 %
Other:	98 %	100 %	97 %	99 %
Total in group:	478*	3*	272*	203*

## V0181 Test equip use or operate - Meters, Jitter

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	3 %	0 %	3 %	2 %
Other:	97 %	100 %	97 %	98 %
Total in group:	478*	3*	272*	203*

## V0182 Test equip use or operate - Meters, Modulation or Deviation

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	12 %	0 %	12 %	11 %
Other:	88 %	100 %	88 %	89 %
Total in group:	478*	3*	272*	203*



## V0183 Test equip use or operate - Meters, Noise Figure

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	27 %	33 %	28 %	26 %
Other:	73 %	67 %	72 %	74 %
Total in group:	478*	3*	272*	203*

## V0184 Test equip use or operate - Meters, Power

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	66 %	100 %	66 %	66 %
Other:	34 %	0 %	34 %	34 %
Total in group:	478*	3*	272*	203*

## V0185 Test equip use or operate - Meters, Vacuum

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	1 %	0 %	2 %	1 %
Other:	99 %	100 %	98 %	99 %
Total in group:	478*	3*	272*	203*

## V0186 Test equip use or operate - Meters, Variable Standing Wave Ratio (VSWR)

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	21 %	33 %	21 %	22 %
Other:	79 %	67 %	79 %	78 %
Total in group:	478*	3*	272*	203*



## V0187 Test equip use or operate - Microohmmeters

	ANG TOT	ANG 3-LVL	ANG 5-LVL	ANG 7-LVL
Interval Percentages	gp0010	gp0011	gp0012	gp0013
Yes	10 %	67 %	10 %	8 %
Other:	90 %	33 %	90 %	92 %
Total in group:	478*	3*	272*	203*

## V0188 Test equip use or operate - Monitors, Modulation

	ANG TOT	ANG 3-LVL	ANG 5-LVL	ANG 7-LVL
Interval Percentages	gp0010	gp0011	gp0012	gp0013
Yes	8 %	0 %	11 %	5 %
Other:	92 %	100 %	89 %	95 %
Total in group:	478*	3*	272*	203*

## V0189 Test equip use or operate - Monitors, Waveform

	ANG TOT	ANG 3-LVL	ANG 5-LVL	ANG 7-LVL
Interval Percentages	gp0010	gp0011	gp0012	gp0013
Yes	10 %	0 %	13 %	6 %
Other:	90 %	100 %	87 %	94 %
Total in group:	478*	3*	272*	203*

## V0190 Test equip use or operate - Multimeters, Analog

	ANG TOT	ANG 3-LVL	ANG 5-LVL	ANG 7-LVL
Interval Percentages	gp0010	gp0011	gp0012	gp0013
Yes	55 %	33 %	60 %	50 %
Other:	45 %	67 %	40 %	50 %
Total in group:	478*	3*	272*	203*



## V0191 Test equip use or operate - Multimeters, Digital

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	79 %	100 %	83 %	74 %
Other:	21 %	0 %	17 %	26 %
Total in group:	478*	3*	272*	203*

## V0192 Test equip use or operate - Noise Combiners

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	6 %	0 %	8 %	4 %
Other:	94 %	100 %	92 %	96 %
Total in group:	478*	3*	272*	203*

## V0193 Test equip use or operate - Optical Time Domain Reflectometers (OTDRs)

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	8 %	0 %	8 %	8 %
Other:	92 %	100 %	92 %	92 %
Total in group:	478*	3*	272*	203*

## V0194 Test equip use or operate - Oscilloscopes

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	73 %	100 %	75 %	69 %
Other:	27 %	0 %	25 %	31 %
Total in group:	478*	3*	272*	203*





## V0195 Test equip use or operate - Pad Limiters

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	13 %	0 %	13 %	12 %
Other:	87 %	100 %	87 %	88 %
Total in group:	478*	3*	272*	203*

## V0196 Test equip use or operate - Power Heads

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	15 %	33 %	12 %	18 %
Other:	85 %	67 %	88 %	82 %
Total in group:	478*	3*	272*	203*

## V0197 Test equip use or operate - Power Supplies, DC

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	42 %	67 %	43 %	40 %
Other:	58 %	33 %	57 %	60 %
Total in group:	478*	3*	272*	203*

## V0198 Test equip use or operate - Power Supplies, Variable

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	31 %	33 %	33 %	29 %
Other:	69 %	67 %	67 %	71 %
Total in group:	478*	3*	272*	203*



## V0199 Test equip use or operate - Pressure Gauges

	ANG TOT	ANG 3-LVL	ANG 5-LVL	ANG 7-LVL
Interval Percentages	gp0010	gp0011	gp0012	gp0013
Yes	10 %	0 %	10 %	9 %
Other:	90 %	100 %	90 %	91 %
Total in group:	478*	3*	272*	203*

## V0200 Test equip use or operate - Probes, Digital Logic

	ANG TOT	ANG 3-LVL	ANG 5-LVL	ANG 7-LVL
Interval Percentages	gp0010	gp0011	gp0012	gp0013
Yes	15 %	0 %	17 %	13 %
Other:	85 %	100 %	83 %	87 %
Total in group:	478*	3*	272*	203*

## V0201 Test equip use or operate - Probes, High Voltage

	ANG TOT	ANG 3-LVL	ANG 5-LVL	ANG 7-LVL
Interval Percentages	gp0010	gp0011	gp0012	gp0013
Yes	24 %	33 %	22 %	27 %
Other:	76 %	67 %	78 %	73 %
Total in group:	478*	3*	272*	203*

## V0202 Test equip use or operate - Probes, Network

	ANG TOT	ANG 3-LVL	ANG 5-LVL	ANG 7-LVL
Interval Percentages	gp0010	gp0011	gp0012	gp0013
Yes	3 %	0 %	4 %	1 %
Other:	97 %	100 %	96 %	99 %
Total in group:	478*	3*	272*	203*



## V0203 Test equip use or operate - Probes, RF

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	27 %	0 %	25 %	31 %
Other:	73 %	100 %	75 %	69 %
Total in group:	478*	3*	272*	203*

## V0204 Test equip use or operate - Probes, Thermal

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	2 %	0 %	3 %	1 %
Other:	98 %	100 %	97 %	99 %
Total in group:	478*	3*	272*	203*

## V0205 Test equip use or operate - Satellite Simulators

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	18 %	0 %	17 %	19 %
Other:	82 %	100 %	83 %	81 %
Total in group:	478*	3*	272*	203*

## V0206 Test equip use or operate - Strip Chart Recorders

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	1 %	0 %	2 %	0 %
Other:	99 %	100 %	98 %	100 %
Total in group:	478*	3*	272*	203*



## V0207 Test equip use or operate - Tension Gauges

	ANG TOT	ANG 3-LVL	ANG 5-LVL	ANG 7-LVL
Interval Percentages	gp0010	gp0011	gp0012	gp0013
Yes	3 %	0 %	3 %	2 %
Other:	97 %	100 %	97 %	98 %
Total in group:	478*	3*	272*	203*

## V0208 Test equip use or operate - Test Sets, Antenna Control

	ANG TOT	ANG 3-LVL	ANG 5-LVL	ANG 7-LVL
Interval Percentages	gp0010	gp0011	gp0012	gp0013
Yes	18 %	33 %	19 %	16 %
Other:	82 %	67 %	81 %	84 %
Total in group:	478*	3*	272*	203*

## V0209 Test equip use or operate - Test Sets, Bit Error Rate

	ANG TOT	ANG 3-LVL	ANG 5-LVL	ANG 7-LVL
Interval Percentages	gp0010	gp0011	gp0012	gp0013
Yes	49 %	67 %	52 %	44 %
Other:	51 %	33 %	48 %	56 %
Total in group:	478*	3*	272*	203*

## V0210 Test equip use or operate - Test Sets, Control

	ANG TOT	ANG 3-LVL	ANG 5-LVL	ANG 7-LVL
Interval Percentages	gp0010	gp0011	gp0012	gp0013
Yes	7 %	0 %	9 %	4 %
Other:	93 %	100 %	91 %	96 %
Total in group:	478*	3*	272*	203*





## V0211 Test equip use or operate - Test Sets, Digital Data

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	16 %	0 %	15 %	18 %
Other:	84 %	100 %	85 %	82 %
Total in group:	478*	3*	272*	203*

## V0212 Test equip use or operate - Test Sets, DualCommSec(COMSEC)Switching Units

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	5 %	0 %	7 %	3 %
Other:	95 %	100 %	93 %	97 %
Total in group:	478*	3*	272*	203*

## V0213 Test equip use or operate - Test Sets, Dual Modem

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	6 %	0 %	8 %	3 %
Other:	94 %	100 %	92 %	97 %
Total in group:	478*	3*	272*	203*

## V0214 Test equip use or operate - Test Sets, Eb/No

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	9 %	0 %	9 %	8 %
Other:	91 %	100 %	91 %	92 %
Total in group:	478*	3*	272*	203*



## V0215 Test equip use or operate - Test Sets, Explosive Circuit

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	1 %	0 %	1 %	0 %
Other:	99 %	100 %	99 %	100 %
Total in group:	478*	3*	272*	203*

## V0216 Test equip use or operate - Test Sets, Fiber-Optic

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	14 %	0 %	15 %	13 %
Other:	86 %	100 %	85 %	87 %
Total in group:	478*	3*	272*	203*

## V0217 Test equip use or operate - Test Sets, Frequency Response

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	10 %	0 %	11 %	9 %
Other:	90 %	100 %	89 %	91 %
Total in group:	478*	3*	272*	203*

## V0218 Test equip use or operate - Test Sets, High Power Amplifier (HPA)

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	26 %	0 %	31 %	19 %
Other:	74 %	100 %	69 %	81 %
Total in group:	478*	3*	272*	203*



## V0219 Test equip use or operate - Test Sets, HPA Power Supply

	ANG TOT	ANG 3-LVL	ANG 5-LVL	ANG 7-LVL
Interval Percentages	gp0010	gp0011	gp0012	gp0013
Yes	23 %	0 %	27 %	17 %
Other:	77 %	100 %	73 %	83 %
Total in group:	478*	3*	272*	203*

## V0220 Test equip use or operate - Test Sets, Insulation

	ANG TOT	ANG 3-LVL	ANG 5-LVL	ANG 7-LVL
Interval Percentages	gp0010	gp0011	gp0012	gp0013
Yes	5 %	0 %	6 %	3 %
Other:	95 %	100 %	94 %	97 %
Total in group:	478*	3*	272*	203*

## V0221 Test equip use or operate - Test Sets, Loop

	ANG TOT	ANG 3-LVL	ANG 5-LVL	ANG 7-LVL
Interval Percentages	gp0010	gp0011	gp0012	gp0013
Yes	26 %	33 %	26 %	27 %
Other:	74 %	67 %	74 %	73 %
Total in group:	478*	3*	272*	203*

## V0222 Test equip use or operate - Test Sets, Message Processor (MPTS)

	ANG TOT	ANG 3-LVL	ANG 5-LVL	ANG 7-LVL
Interval Percentages	gp0010	gp0011	gp0012	gp0013
Yes	1 %	0 %	2 %	0 %
Other:	99 %	100 %	98 %	100 %
Total in group:	478*	3*	272*	203*



## V0223 Test equip use or operate - Test Sets, Narrow Band

	ANG TOT	ANG 3-LVL	ANG 5-LVL	ANG 7-LVL
Interval Percentages	gp0010	gp0011	gp0012	gp0013
Yes	3 %	0 %	4 %	0 %
Other:	97 %	100 %	96 %	100 %
Total in group:	478*	3*	272*	203*

## V0224 Test equip use or operate - Test Sets, Power Supply, other than HPA

	ANG TOT	ANG 3-LVL	ANG 5-LVL	ANG 7-LVL
Interval Percentages	gp0010	gp0011	gp0012	gp0013
Yes	13 %	0 %	12 %	14 %
Other:	87 %	100 %	88 %	86 %
Total in group:	478*	3*	272*	203*

## V0225 Test equip use or operate - Test Sets, Receiver or Transmitter

	ANG TOT	ANG 3-LVL	ANG 5-LVL	ANG 7-LVL
Interval Percentages	gp0010	gp0011	gp0012	gp0013
Yes	19 %	0 %	21 %	16 %
Other:	81 %	100 %	79 %	84 %
Total in group:	478*	3*	272*	203*

## V0226 Test equip use or operate - Test Sets, Synchronizer

	ANG TOT	ANG 3-LVL	ANG 5-LVL	ANG 7-LVL
Interval Percentages	gp0010	gp0011	gp0012	gp0013
Yes	6 %	0 %	8 %	4 %
Other:	94 %	100 %	92 %	96 %
Total in group:	478*	3*	272*	203*





## V0227 Test equip use or operate - Test Sets, Telephone

	ANG TOT	ANG 3-LVL	ANG 5-LVL	ANG 7-LVL
Interval Percentages	gp0010	gp0011	gp0012	gp0013
Yes	23 %	67 %	21 %	26 %
Other:	77 %	33 %	79 %	74 %
Total in group:	478*	3*	272*	203*

## V0228 Test equip use or operate - Test Sets, Teletype

	ANG TOT	ANG 3-LVL	ANG 5-LVL	ANG 7-LVL
Interval Percentages	gp0010	gp0011	gp0012	gp0013
Yes	3 %	0 %	5 %	1 %
Other:	97 %	100 %	95 %	99 %
Total in group:	478*	3*	272*	203*

## V0229 Test equip use or operate - Test Sets, Wideband

	ANG TOT	ANG 3-LVL	ANG 5-LVL	ANG 7-LVL
Interval Percentages	gp0010	gp0011	gp0012	gp0013
Yes	31 %	33 %	33 %	28 %
Other:	69 %	67 %	67 %	72 %
Total in group:	478*	3*	272*	203*

## V0230 Test equip use or operate - Testers, Circuit Board

	ANG TOT	ANG 3-LVL	ANG 5-LVL	ANG 7-LVL
Interval Percentages	gp0010	gp0011	gp0012	gp0013
Yes	5 %	0 %	7 %	3 %
Other:	95 %	100 %	93 %	97 %
Total in group:	478*	3*	272*	203*



## V0231 Test equip use or operate - Testers, Digital Diagnostic

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Interval Percentages				
Yes	5 %	0 %	6 %	3 %
Other:	95 %	100 %	94 %	97 %
Total in group:	478*	3*	272*	203*

## V0232 Test equip use or operate - Testers, Logic

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Interval Percentages				
Yes	5 %	0 %	7 %	3 %
Other:	95 %	100 %	93 %	97 %
Total in group:	478*	3*	272*	203*

## V0233 Test equip use or operate - Testers, Semiconductor

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Interval Percentages				
Yes	4 %	0 %	5 %	4 %
Other:	96 %	100 %	95 %	96 %
Total in group:	478*	3*	272*	203*

## V0234 Test equip use or operate - Time Domain Reflectometers (TDRs)

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Interval Percentages				
Yes	9 %	0 %	9 %	8 %
Other:	91 %	100 %	91 %	92 %
Total in group:	478*	3*	272*	203*



## V0235 Test equip use or operate - Torque Wrenches

	ANG TOT	ANG 3-LVL	ANG 5-LVL	ANG 7-LVL
Interval Percentages	gp0010	gp0011	gp0012	gp0013
Yes	38 %	0 %	39 %	38 %
Other:	62 %	100 %	61 %	62 %
Total in group:	478*	3*	272*	203*

## V0236 Test equip use or operate - Vacuum Pumps

	ANG TOT	ANG 3-LVL	ANG 5-LVL	ANG 7-LVL
Interval Percentages	gp0010	gp0011	gp0012	gp0013
Yes	3 %	0 %	4 %	3 %
Other:	97 %	100 %	96 %	97 %
Total in group:	478*	3*	272*	203*

## V0237 Test equip use or operate - Vibragrounds

	ANG TOT	ANG 3-LVL	ANG 5-LVL	ANG 7-LVL
Interval Percentages	gp0010	gp0011	gp0012	gp0013
Yes	46 %	33 %	45 %	49 %
Other:	54 %	67 %	55 %	51 %
Total in group:	478*	3*	272*	203*

## V0238 Test equip use or operate - Voltmeters, Frequency Selective

	ANG TOT	ANG 3-LVL	ANG 5-LVL	ANG 7-LVL
Interval Percentages	gp0010	gp0011	gp0012	gp0013
Yes	30 %	0 %	32 %	28 %
Other:	70 %	100 %	68 %	72 %
Total in group:	478*	3*	272*	203*



## V0239 Test equip use or operate - Voltmeters, Root Mean Square (RMS)

	ANG TOT	ANG 3-LVL	ANG 5-LVL	ANG 7-LVL
Interval Percentages	gp0010	gp0011	gp0012	gp0013
Yes	24 %	0 %	25 %	23 %
Other:	76 %	100 %	75 %	77 %
Total in group:	478*	3*	272*	203*

## V0240 Test equip use or operate - Voltmeters, Vacuum Tube

	ANG TOT	ANG 3-LVL	ANG 5-LVL	ANG 7-LVL
Interval Percentages	gp0010	gp0011	gp0012	gp0013
Yes	3 %	0 %	4 %	3 %
Other:	97 %	100 %	96 %	97 %
Total in group:	478*	3*	272*	203*

## V0241 Test equip use or operate - Wattmeters

	ANG TOT	ANG 3-LVL	ANG 5-LVL	ANG 7-LVL
Interval Percentages	gp0010	gp0011	gp0012	gp0013
Yes	37 %	33 %	33 %	42 %
Other:	63 %	67 %	67 %	58 %
Total in group:	478*	3*	272*	203*

## V0242 Test equip use or operate - Waveguide Couplers or Adapters

	ANG TOT	ANG 3-LVL	ANG 5-LVL	ANG 7-LVL
Interval Percentages	gp0010	gp0011	gp0012	gp0013
Yes	51 %	33 %	56 %	46 %
Other:	49 %	67 %	44 %	54 %
Total in group:	478*	3*	272*	203*





## V0243 Test equip use or operate - Wavemeters

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	6 %	0 %	8 %	2 %
Other:	94 %	100 %	92 %	98 %
Total in group:	478*	3*	272*	203*

## V0244 Test equip use or operate - X-Y Recorders or Plotters

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	4 %	0 %	6 %	1 %
Other:	96 %	100 %	94 %	99 %
Total in group:	478*	3*	272*	203*

## V0245 Test equip use or operate - Other

	ANG TOT gp0010	ANG 3-LVL gp0011	ANG 5-LVL gp0012	ANG 7-LVL gp0013
Yes	3 %	0 %	4 %	2 %
Other:	97 %	100 %	96 %	98 %
Total in group:	478*	3*	272*	203*



END PRTREP